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Beloit College Catalogue

1910-1911

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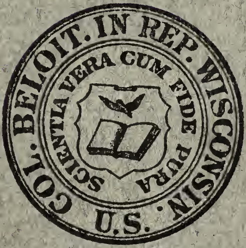

VOL. IX, No. 2

OF

The Beloit College Bulletin

Entered December 16, 1902, at the Postoffice in Beloit, Wisconsin, as second class matter, under act of Congress of July 16, 1894.

Correspondence

Address Professor H. D. Densmore, Registrar of the College, for

1. Catalogues and other publications of the College.
2. Information regarding admission, accrediting of schools, certificates and examination.
3. Accommodations in dormitories.
4. Extension lectures.

For information concerning Alumni, address Editor of the Catalogue.

Send all deposits and other payments to E. B. Kilbourn, Treasurer of the College, to whom all checks should be made payable.

Sixty-Fourth Annual Catalogue

OF

BELOIT COLLEGE

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BELOIT, WISCONSIN

January, 1911

1910 CALENDAR 1911 1912

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College Calendar

1910

September 21, Wednesday.....First Semester begins: Convocation, 4:30 P. M.
October 12, Wednesday........................Big Hill Day
October 18, Tuesday......Meeting of the Board of Trustees
November 23, Wednesday........Recitations close, 12:00 M.

Thanksgiving Recess

November 25, Friday.............Recess closes, 1:30 P. M.
Registration, 1:00 to 3:00 P. M.
December 16, Friday..............Home Oratorical Contest
December 21, Wednesday....Winter Recess begins, 12:00 M.

Winter Recess

1911

January 4, Wednesday.....Winter Recess closes, 1:30 P. M.
Registration, 1:00 to 3:00 P. M.
January 17, Tuesday......Meeting of the Board of Trustees
January 25, Wednesday.......Election of Studies for Second Semester.
January 26, Thursday...........Day of Prayer for Colleges
February 1, Wednesday........Semester Examinations begin
February 8, Wednesday.....First Semester closes, 12:00 M.
Second Semester begins: Registration, 2:30 to 6:00 P. M.
February 10, Friday..........................Matriculation
February 22, Wednesday............Washington's Birthday
March 24, Friday...........Spring Recess begins, 12:00 M.

Spring Recess

April 4, Tuesday..........Spring Recess closes, 1:30 P. M.
Registration, 1:00 to 3:00 P. M.
April 18, Tuesday........Meeting of the Board of Trustees
May 24, Wednesday............Election of Studies for First Semester, 1911-1912.
May 30, Tuesday............................Memorial Day
June 1, Thursday.......Essays in competition for prizes due
June 7, Wednesday............Semester Examinations begin
June 15, Thursday....................Final Chapel Exercise

June 17, Saturday..........Rice Extemporaneous Speaking
Meeting of the Board of Trustees
June 18, Sunday...Address before the Christian Associations,
10:30 A. M.
Baccalaureate Sermon, 5:00 P. M.
June 19, Monday............Alumni Luncheon, 12:30 P. M.
Class Day Exercises
June 20, Tuesday....................Commencement Day
Graduation Exercises, 9:00 A. M.
Corporation Dinner, 12:30 P. M.

Summer Vacation

September 19, Tuesday. Examinations for admission to College.
Registration of Freshmen,
9:00 A. M. to 4:00 P. M.
September 20, Wednesday.....Registration of Upper Classes,
9:00 A. M. to 4:00 P. M.
First Semester begins: Convocation, 4:30 P. M.
October....................................Big Hill Day
October 17, Tuesday........Meeting of the Board of Trustees
November 22, Wednesday........Recitations close, 12:00 M.

Thanksgiving Recess

November 24, Friday..............Recess closes, 1:30 P. M.
Registration, 1:00 to 3:00 P. M.
December 15, Friday..............Home Oratorical Contest
December 21, Thursday......Winter Recess begins, 12:00 M.

Winter Recess

1912

January 4, Thursday........Winter Recess closes, 1:30 P. M.
Registration, 1:00 to 3:00 P. M.

NOTE:—For students who are conditioned or who have omitted work to make up, examinations are held at the close of the Spring Recess and the Summer Vacation. These examinations, for which a schedule is posted two weeks in advance, cover a day and a half, begining on the final Monday morning of the Spring Recess and the final Tuesday morning of the Summer Vacation. All students who have work to make up must present themselves for examination at the appointed hour.

Historical Sketch

As early as 1843 there was some discussion of the need and possibility of a college for the new region opened to settlement by the Black Hawk war in the Northwest Territory. In June, 1844, a general convention of Congregational and Presbyterian churches in the Northwest was held at Cleveland, Ohio, at which education received much attention. Returning delegates decided to call a convention in Beloit in August, 1844, to plan for the location of institutions for Wisconsin, Illinois, and Iowa.

Three more conventions were held—all in Beloit, for it was felt from the outset that Beloit was the most favorable place for a college in Wisconsin. The first meeting of the trustees was held October 23rd, 1845. The charter, as shown farther on, was approved by the Governor of the Territory of Wisconsin, February 2nd, 1846. Middle College, the first College building, was begun in the autumn of 1846. The first Freshman class began work November 4th, 1847, under the instruction of Mr. S. T. Merrill, reciting in the basement of the old stone church and later in a private house. Professor J. J. Bushnell came in April and Professor Joseph Emerson in May, 1848; Professor William Porter in September, 1852; Professor J. J. Blaisdell in September, 1859. Rev. Aaron L. Chapin was elected President, November 21st, 1849, and was inaugurated July 24th, 1850. On his resignation of the presidency, June 29th, 1886, Rev. Edward D. Eaton was elected his successor, and was inaugurated November 4th, 1886. December 31st, 1905, President Eaton resigned his position, on account of impaired strength, but was re-inaugurated, after a period of rest, on March 4th, 1908.

Little by little the funds of the College have been enlarged; new buildings have been erected to meet its growing needs; and the number of students and teachers has more than kept pace with the increase in equipment. Since the first class, consisting of three men, was graduated in 1851, there has been no break in the succession of graduating classes. Until 1874, only the Classical Course, modeled after the standards of Yale College, was offered; in that year a Philosophical Course was added, and was discontinued in 1900. The Science Course was introduced in 1892, and came into its own with the completion of the Pearsons Hall of Science, in 1894. The adoption of the system of accrediting graduates of approved high schools for entrance without examination brought the College into closer relations with the schools of the region in which it stands. The Chapel building, dedicated in 1892, gave an appropriate centre for the religious life of the College. Women were admitted to the College classes in September, 1895, and were first graduated in 1898. In 1898, also, Emerson Hall was completed to provide accommodations for the young women. The opening of the Smith Gymnasium in 1904, and of the Carnegie Library in 1905, mark further steps in the equipment of the institution for its expanding life.

The endowment fund has been increased by the efforts of Trustees, Alumni, and friends of the College, until, with the additions made in 1908 to meet an offer from the General Education Board, it now amounts to over one million dollars. In 1906 the College was enrolled among the institutions whose instructors are privileged to receive retiring pensions from the Carnegie Foundation for the Advancement of Teaching. The number of students in the College classes in 1886, the first year of President Eaton's administration, was 58; in 1896 it was 194; in 1906, 321; and in the present year, 410. Since the College was founded, over six thousand young men and young women have been enrolled as students in its classes, of whom 1,118 have been graduated.

The founders and most active early friends of the College were chiefly Congregationalists and Presbyterians, and these bodies continue to be most immediately interested in its development and are the largest sharers in its life; but it has always had warm support from many branches of the Christian church, and it has striven to deserve the confidence of all men. It proposes to continue to be evangelical and unsectarian. It was started with the conviction that thoroughness in education was as good a thing for the West as for the East, and that a thorough and rounded education must combine learning, morality, and religion.

The strenuous endeavor is made to teach the heart as well as the mind, and to give a personal care that shall reach the individual needs of every student. The lives and the work of its former students constitute the best evidence of its spirit and its success.

The Charter of Beloit College

Be it enacted by the Council and House of Representatives of the Territory of Wisconsin:

Section 1. (That) Rev'ds A. Kent, D. Clary, S. Peet, F. Bascom, C. Waterbury, J. D. Stevens, A. L. Chapin, R. M. Pearson, Mrs. G. W. Hickox, A. Raymond, C. M. Goodsell, E. W. Potter, L. G. Fisher, W. Talcott, Charles S. Hempstead, and Samuel Hinman and their successore be, and they are hereby created, a body politic and corporate to be styled The Board of Trustees of Beloit College, and by that name to remain in perpetual succession, with full power to sue and be sued, plead and be impleaded, to acquire, hold, and convey property, real and personal; to have and use a common seal, to alter and renew the same at pleasure; to make and alter, from time to time, such by-laws as they may deem necessary for the government of said institution, its officers and servants: *Provided,* such by-laws are not inconsistent with the constitution and by-laws of the United States or of this Territory; also, to have power to confer on those whom they may deem worthy, all such honors and degrees as are usually conferred in like institutions.

Section 2. That the said College be located in the township of Beloit, Rock County, and shall be erected on a plan sufficiently extensive to afford instruction in the liberal arts and sciences; and the trustees may, as their ability shall increase, and the interests of the country require, erect any or all of the different departments for the study of the liberal professions, in such locations as may be most feasible, in the town of Beloit.

SECTION 3. That the board of trustees shall have power to appoint a president, vice-president, treasurer and such agents as they may deem necessary, and shall fill all vacancies that may occur in their own board, by (expiration of term), resignation, death or neglect for more than one year to attend to the duties of the trustee; also, to appoint such officers, professors and teachers as the institution and government of the institution shall require, and prescribe their duties, and to remove any of them for sufficient reasons; also, to prescribe and direct the course of studies to be pursued in the institution and its departments.

SECTION 4. That the board of trustees shall consist of sixteen members, with power to increase their number to twenty-four; and (any) seven of whom shall constitute a quorum for the transaction of business. Said board of trustees shall hold their first annual meeting in the township of Beloit, on the fourteenth day of April, 1846, and afterwards they shall meet on their own adjournments; but in cases of emergency the president, with the concurrence of two trustees, may call a special meeting, or any five members may call such meeting by giving notice to such (each) member at least ten days before the time of such meeting.

SECTION 5. That the board of trustees shall faithfully apply all funds by them collected or received, according to their best judgment, in erecting suitable buildings, supporting the necessary officers, instructors and servants, in procuring books and apparatus, necessary to the success of the institution; *Provided, nevertheless,* That in case any donation or bequest be made for particular purposes, which accord with the designs of the institution, and the corporation shall receive and accept the same, every donation or bequest thus made shall be applied in conformity to the conditions or designs expressed by the donor.

SECTION 6. That the treasurer of the institution shall always, and all other agents when required, before entering upon the duties of their appointments, give bond for the security of the corporation, and of the public, in such penal sums, and with such sureties as the board of trustees shall approve.

SECTION 7. That no religious tenets or opinions shall be requisite to entitle any person to be admitted as a student in said college, and no such tenets or opinions shall be required as a qualification for any professor, tutor, or teacher of said college, and no student of said college shall be required to attend religious worship in any particular denomination.

SECTION 8. The Legislature shall have full power to alter, amend or repeal this act at any time, without any judicial investigation, and vested rights to the contrary notwithstanding.

Approved, February 2, 1846.

This charter has been amended several times, as follows:

An amendment to Section 4, certified Feb. 18, 1890, fixed the number of trustees at twenty-four, nine of whom should constitute a quorum; fixed the term of service at three years; provided that at the annual meeting in June 1890, the members of the board should divide themselves into three classes, of eight members each, and that the term of office of one of these classes should expire each year, in rotation; and raised the number required to call a special meeting to nine.

An amendment to the same section, certified February 13, 1893, increased the number of trustees to thirty—three classes, of ten each—a majority of whom should constitute a quorum.

An amendment certified June 8, 1895, added the words "or elsewhere" to Section 2.

An amendment to Section 4, certified December 9, 1905, reduced the number necessary for a quorum from a majority to nine members, and permitted five members to call a special meeting of the board, on six days' notice.

Trustees

REV. EDWARD D. EATON, D. D., LL. D.	PRESIDENT
FRANK G. LOGAN, Esq.	FIRST VICE PRESIDENT
EDWARD P. SALMON, M. A.	SECOND VICE PRESIDENT

HONORARY

REV. GEORGE S. F. SAVAGE, D. D	Chicago, Ill.

ACTIVE

Term Expires June, 1911

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FREDERIC F. NORCROSS, B. A.	Chicago, Ill.
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CHARLES B. SCOVILLE, Esq.	Pasadena, Calif.
CHARLES B. STOWELL, Esq.	Hudson, Mich.
HORACE WHITE, LL. D.	New York City

Term Expires June, 1912

HENRY W. AUSTIN, B. A.	Oak Park, Ill.
WILLIAM B. HALE, M. A.	Chicago, Ill.
NELSON P. HULST, Ph. D.	Milwaukee
ALEXANDER E. MATHESON, M. A.	Janesville
JOHN R. MONTGOMERY, B. A.	Chicago, Ill.
JAMES H. MOORE, Esq.	Chicago, Ill.
CHARLES H. MORSE, Jr., M. E.	Chicago, Ill.
NATHANIEL C. SEARS, M. A., LL. D.	Chicago, Ill.
CHARLES R. SMITH, B. S.	Menasha
JOHN E. WILDER, B. S.	Evanston, Ill.

Term Expires June, 1913

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LEONARD HILLIS, Esq.	Peoria, Ill.
CLARENCE S. PELLET, B. A.	Chicago, Ill.
PHILO F. PETTIBONE, M. A.	Chicago, Ill.
EDWARD H. PITKIN, Esq.	Oak Park, Ill.
CHARLES B. SALMON, Esq.	Beloit
EDWARD P. SALMON, M. A.	Beloit
WILLIAM SPOONER, Esq.	Oak Park, Ill.
RT. REV. WM. WALTER WEBB, D. D., LL. D.	Milwaukee

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J. H. Moore
C. B. Salmon
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William Spooner, Oak Park, Ill...............*Auditor*

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EDWARD DWIGHT EATON, D. D. LL. D., *President on the D. K. Pearsons Foundation, and Professor of Ethics.* 844 College St.

*GEORGE LUCIUS COLLIE, Ph. D., *Dean and Professor of Geology on the Alumni Foundation.* 731 Park Ave.

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CALVIN WASSON PEARSON, Ph. D., *Professor of the German Language and Literature, Emeritus; on the Carnegie Foundation.* Wallingford, Penn.

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HIRAM DELOS DENSMORE, M. A., *Cornelia Bailey Williams Professor of Botany.* 718 Clary St.

ROBERT COIT CHAPIN, Ph. D., *Horace White Professor of Economics and Finance.* 709 College St.

---

* Absent first semester, 1910-1911.

FOREST EMBERSON CALLAND, M. A., *Professor of Latin Literature.* 949 Church St.

ABRAM RAY TYLER, A. G. O., *Professor of Music.* 911 Park Ave.

FRANK HERBERT CHASE, Ph. D., *Root Professor of English Literature.* 718 Church St.

ROBERT KIMBALL RICHARDSON, Ph. D., *Professor of History.* 829 Church St.

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GEORGE DAY FAIRFIELD, M. A., *Assistant Professor of Romanic Languages.* 717 Emerson St.

**HARRY TORSEY BAKER, M. A., *Assistant Professor of English Literature.*

---

* Absent second semester, 1910-1911.

**Absent during 1910-1911.

KARL TINSLEY WAUGH, Ph. D., *Assistant Professor of Mental Science and Philosophy, on the Squier Foundation.* 915 Bushnell St.

KATHRYN NEWELL ADAMS, B. A., *Dean of Women and Instructor in English.* Emerson Hall

DANA McKEAN EVANS, *Director of the Gymnasium and Assistant Professor of Physical Training, on the James A. Brewster Foundation.* 1016 Church St.

CLAYTON DE LISLE CRAWFORD, LL. B., *Assistant Professor of Public Speaking, on the Knapp Foundation.* 949 Park Ave.

FRANK AMANDUS NEFF, M. A., *Acting Assistant Professor of Political Science and American History.* Cor. Bushnell St. and Milwaukee Rd.

HELEN BRACE EMERSON, *Curator of the Art Collections.* 810 College St.

ARTHUR WILLIAM CRAVER, B. A., *Instructor in Rhetoric and English Literature.* Chapin Hall

FREDERICK JAMES MENGER, Jr., M. A., *Instructor in German.* 721 Park Ave.

ANDREW FRIEDLEY McLEOD, Ph. D., *Instructor in Chemistry.* 832 Park Ave.

GEORGE WILEY SHERBURN, M. A., *Instructor in English Literature and Rhetoric.* Chapin Hall

MARGARET FULLER ROGERS, *Director of the Women's Gymnasium and Instructor in Physical Training.* Junior House

CHARLES DARWIN ROSA, B. A., LL. B., *Lecturer on Commercial Law.* 1207 White Ave.

Major Earl Wharry, B. S. M. E., *Instructor in Mechanical Drawing.* 310 Euclid Ave.

Iva Marion Butlin, M. A., *Instructor in Library Science.* 715 Church St.

George Clark Haines, B. S., *Laboratory Assistant in Biology.* Chapin Hall

J. Duane Gleghorn, B. A., *Laboratory Assistant in Chemistry.* 735 Broad St.

Clara Eliza Emerson, B. A., *Assistant in Rhetoric.* 736 Church St.

Mabel Clare Huschka, B. S., *Laboratory Assistant in Biology.* Julia Salmon Cottage

Edna Hermine Menger, B. A., *Assistant in German.* 721 Park Ave.

Ruby Garlick Babler, *Teacher of Vocal Music.* 523 Pleasant St.

Lecturer

Rev. Robert A. Hume, D. D., *Missionary Lecturer on the Porter Foundation.* Ahmednagar, India

Committees of the Faculty

On Accredited Schools and Entrance: Professors Densmore, Hamilton, Deane.

On Administration: The President, the Dean, the Dean of Women, the Recorder, the Registrar, the Secretary of the Faculty, Professor Wright.

Sub-Committee on Development of the College: The President, the Registrar, Professor Wright.

Sub-Committee on Fraternities: The Dean, the Registrar, the Secretary of the Faculty.

On Catalogue and Bulletins: Professors Chase, Densmore.

On Courses of Study: Professors Chapin, Densmore, Dubee, Wright.

On Delinquencies: The Dean, the Dean of Women, Professors Chapin, Densmore.

On Faculty Meetings: Professors Calland, Burr, Culver, Waugh.

On Graduate Study: Professors Risser, Dubee, Waugh.

On Grounds: Professors Wright, Burr, Risser.

On Gymnasium and Athletics: Professors Hamilton, Evans, Mr. Light, Miss Rogers.

On Lecture Courses: Professors Chase, Fairfield, Risser, Waugh.

On the Library: Professors Chapin, Chase, Deane, E. G. Smith.

On Positions for Graduates: Professors Densmore, Burr, Chase.

On Press: Professors Culver, Chapin, Mr. Light.

On Promotion of Scholarship: Professors Burr, Dubee, Richardson, E. G. Smith.

On Public Occasions: Professors E. G. Smith, Tyler, Fairfield.

On Religious Exercises: Professors Richardson, Culver, Wright, Mr. Light.

On Rules: Professors Wright, T. A. Smith, the Dean of Women.

On Schedules: Professors Hamilton, Culver, Richardson.

On Scholarships: Professors Densmore, Chase, T. A. Smith.

Members of Athletic Board of Control: Professor Hamilton, Chairman; Mr. Light.

Members of Board of Control of Archæan Union: Professor Chapin, Chairman; Professor Culver.

Advisers to Musical Association: Professors Chase, Risser.

Student Advisers

For the Class of 1913: Professor E. G. Smith, Chairman; Professors Burr, Chase, Dubee, Hamilton, T. A. Smith, Tyler, Wright.

For the Class of 1914: Professor Burr, Chairman; Professors Calland, Culver, Deane, Richardson, Wright, Risser, Waugh.

Officers of Administration

Edward Dwight Eaton, D. D., LL. D. *President*
844 College St.

[*]George Lucius Collie, Ph. D.
Dean and Curator of the Logan Museum
731 Park Ave.

Kathryn Newell Adams, B. A. *Dean of Women*
Emerson Hall

Hiram Delos Densmore, M. A. *Registrar*
718 Clary St.

Erastus Gilbert Smith, Ph. D. *Recorder*
649 Harrison Ave.

Robert Coit Chapin, Ph. D. *Secretary of the Faculty*
709 College St.

Edward Bela Kilbourn, B. A. *Treasurer*
633 College St.

John Pitt Deane, B. A., B. D. *Librarian*
742 Church St.

Abram Ray Tyler *Organist and Choirmaster*
911 Park Ave.

Helen Brace Emerson *Curator of the Art Collections*
810 College St.

Iva Marion Butlin, M. A. *Associate Librarian*
715 Church St.

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[*] Absent first semester, 1910-1911; during Dean Collie's absence, his duties are performed by Professor Chapin, as Acting Dean.

DANA MCKEAN EVANS *Director of Athletics*
1016 Church St.

EDWARD HAROLD LIGHT, B. A.
General Secretary and Head of Chapin Hall
Chapin Hall

MARGARET FULLER ROGERS *Head of Junior House*
Junior House

EMMA LYMAN BUSHNELL, B. A. *Head of Stowell Cottage*
Stowell Cottage

MABEL CLARE HUSCHKA, B. S.
Head of Julia Salmon Cottage
Julia Salmon Cottage

CORA COOPER CROSS *Matron of Emerson Hall*
Emerson Hall

JOHN BARVELL PFEFFER *Head Janitor*
725 Chapin St.

JOHN ALLEN ELLINGSON *Supt. of Buildings and Grounds*
Superintendent's House, Campus

Assistants

GEORGE CLARK HAINES, B. S. *Assistant in the Library*
Chapin Hall

EDITH GERTRUDE KULL *Assistant in the Art Hall*
826 Fifth St.

MABEL CLARE HUSCHKA, B. S. *Registrar's Assistant*
Julia Salmon Cottage

AURE CYNTHIA TUCKER *Recorder's Assistant*
915 Bushnell St.

MARY ISABELLE ALEXANDER *Treasurer's Assistant*
1235 Chapin St.

Office Hours

The President — President's rooms, Library, 10:00 to 11:00 a. m., except Saturday.

The Dean—Dean's office, Middle College, 4:30 to 5:30 p. m., except Saturday.

The Dean of Women—Emerson Hall, 12:30 to 1:30 and 6:30 to 7:30 p. m., daily.

The Registrar—Registrar's office, Middle College, 4:00 to 4:30 p. m., except Saturday.

The Recorder—Recorder's office, Middle College, 9:30 to 10:30 a. m., except Saturday.

The Treasurer—Middle College, 9:00 to 12:00 a. m., and 1:30 to 4:30 p. m., except Saturday afternoon.

Requirements for Admission

Graduates from a high-school or academy course covering a period of four years are admitted to the Freshman class of the College on presentation of fifteen units of preparatory work, as indicated below. A unit is the equivalent of five recitations per week in a study for one school year. Half-units will be accepted only when presented in addition to whole units in the same subject, or when presented in subjects as closely allied as Botany and Zoology, or as Civics and Economics. The two units of Foreign Language required of all students must be offered in a single language.

All applicants for admission are required to present the following eight units:

Foreign Language, 2.
English Literature, 1.
Rhetoric, 1.
History, 1.
Mathematics, 2.
Science, 1.

In addition, each applicant must present seven units, selected from the following groups:

Foreign Language, 1, 2, 3, or 4.
English Literature, 1, 2, or 3.
History, 1 or 2.
Civics and Economics, 1.
Mathematics, 1.
Science, 1, 2, or 3.

Students who can present fourteen units in the branches of study which are required for entrance to College will be classified *conditionally* as Freshmen; such students will be allowed a deficiency of two of the eight required units in the first list above, provided that they offer enough from the second list to make up fourteen. But no student will be matriculated as a member of the College until he has completely fulfilled all the requirements for admission.

At least two of the studies elected in Freshman year of the College must be in continuation of subjects presented for entrance. The following Freshman courses require specific preparation:

German 3-4. Two units of German.
Greek 3. Two units of Greek.
Latin 3. Four units of Latin.

REQUIREMENTS BY DEPARTMENTS.

Botany. The course presented for entrance in Botany should include the elements of plant structure and physiology, and the life history of types of plants representative of the great plant groups. The work on plant structure and physiology should comprise studies of the root, stem and leaves of the higher plants. The laboratory and field work should occupy about two-thirds of the time given to the course.

Chemistry. Students presenting Chemistry as an entrance-unit in Science should have had a thorough course in General Chemistry, with laboratory work. The course should include both the non-metals and the metals. It is not expected that qualitative analysis will have been taken up. Such elementary text-books as Avery, Shepard, or Williams suggest the scope of the work expected for preparation.

Civics. A unit in Civics may be made up of a year's course in Civics, in Civics and Economics, or in Civics and the History of the United States.

English. The requirement in English has two branches, Rhetoric and English Literature. The study of English should be continuous throughout the four years of the high-school history of English Literature; this will be best taught in course; applicants for admission to College are, however, strongly urged not to present more than three units of English among the fifteen required for entrance. The importance of the study is fundamental; but it should not be made a substitute for other subjects requisite for breadth of training.

a. **Rhetoric.** One unit of Rhetoric is required of all candidates for admission to College; but it is hoped that much more than one-fourth of the high-school course in English will be devoted to work in composition, either as a separate study or in connection with the work in literature. A student whose first month's work in Rhetoric 1 shows serious deficiency in spelling, punctuation, grammar or sentence-structure will be required to take additional work to make up the deficiency, and will be excluded from matriculation until such work is satisfactorily completed.

b. **English Literature.** One unit of English Literature is required of all candidates for admission to College; candidates for entrance to the Freshman course (English Literature 1), must present two units. A third will be accepted in some cases, from schools of exceptional strength.

The course should include the careful study of a few of the greater masterpieces—List A below, or its equivalent—and the more rapid reading of a wide selection of works from the entire field of English literature; teachers are referred for suggestions on the choice of texts to the list adopted by the Conference on Uniform Entrance Requirements in English for 1911-1915.

List A.

Shakespeare's Macbeth; Milton's Lycidas, Comus, L'Allegro, *and* Il Penseroso; *either* Burke's Speech on Conciliation with America *or both* Washington's Farewell Address *and* Webster's First Bunker Hill Oration; *and either* Macaulay's Life of Johnson *or* Carlyle's Essay on Burns.

It is desirable that students who present three units for entrance to College should have some knowledge of the connection with the study of the third and fourth years in high school. A text-book—Halleck, Pancoast and Seely, Moody and Lovett's *First View*, Newcomer, or Long—may be used for this work, but a simple outline, given as accompaniment and background to chronological readings from the literature, is to be preferred.

From a few high schools in which the course in the history of English lLterature is comparable, for scope and method, with the College course 1-2, students whose work, as shown by grades and note-books, is of high quality, will be permitted to enter advanced courses in English Literature without taking course 1-2, if they have done satisfactory work in the Freshman course in Greek Literature (Art and Literature 3-4). Students planning to avail themselves of this privilege must present high-school note-books on entrance to College.

German. Two units of German are required for entrance, including preparation in Punctuation, Grammar (Joynes-Meissner or Thomas) and the following Readings: *Glueck Auf* (Mueller and Wenckebach), Storm's *Immensee*, Gerstaecker's *Germelshausen*, *Novelletten-Bibliothek, Vol. 1*, (Bernhardt), Schiller's *Wilhelm Tell*, or equivalents.

Applicants should be able to take part with reasonable correctness in a simple German conversation, and to put simple English sentences into German.

Greek. Two units are required of all students who expect to enter the regular Freshman course (3) in Homer.

The two required units include: Elementary Greek, in some Beginner's Book, Goodwin's or Hadley-Allen's *Greek Grammar*, four books of Xenophon's *Anabasis*, two books of Homer's *Iliad* or *Odyssey*, and forty lessons in Prose Composition.

History. Any three of the following units will be accepted in History. The texts are specified simply as indicating the general scope of the work, and with the understanding that the courses include also collateral reading and topical work.

a. Ancient History. Texts: Botsford's *Greece and Rome*, or West's *Ancient History*.

b. Mediæval and Modern European History. Texts: Robinson's *European History,* Munro's *Mediaeval Europe,* Whitcomb's *Modern Europe,* Thatcher and Schwill's *General History of Europe.*

c. English History. Texts: Terry's *History of England for Schools,* or Coman and Kendall's or Larned's *England.*

d. History of the United States. Texts: Channing, Johnston's *High School History,* McLaughlin. A year's course of high-school, not grammar-school, work must be offered.

Latin.—Four units are required of all students who expect to pursue work in Freshman Latin; but any student presenting three units,—two of which must represent the work of courses *a* and *b,* and the third, the work of either course *c* or course *d,* as indicated below,—may with the consent of the instructor be admitted on trial to the Freshman work.

The four units cover the following:

a. Elementary Latin book, with Grammar and easy readings.

b. Four books of Cæsar, or two books of Cæsar and the equivalent of two additional books.

c. Six orations of Cicero, including the *Manilian Law.*

d. Six books of Vergil's *Aeneid.*

Practice in Latin Composition is required in connection with works in Cæsar and Cicero.

Mathematics. Two units are required of all candidates for admission to College, as follows:

a. Algebra, including a thorough mastery of the subjects treated in such a book as Wells's *Essentials of Algebra,* through the theory of Quadratic Equations.

b. Plane Geometry. Wentworth's *New Plane Geometry* with the exercises, or an equivalent.

c. Solid Geometry, including the sphere. Wentworth's, or an equivalent.

A student may present for entrance, as a third unit of Mathematics, College Algebra and Trigonometry—the equivalents of College Mathematics 1 and 2. Either of these studies will be accepted as a half-unit.

Physics. Students presenting Physics as an entrance-unit should include in their preparation both text-book and laboratory work. The text-books of Millikan and Gale, Carhart and Chute, or Hoadley are recommended.

Physical Geography. Students who present Physical Geography as one of the entrance-units should have completed a course in a standard text-book in Physical Geography, preference being given to Davis, Tarr, Gilbert and Bingham, or Salisbury. Work in Meteorology is not required, but a knowledge of the chief topographic forms and ability to interpret topographic maps are necessary, and an elementary knowledge of field methods is desirable.

Physiology. The work in Physiology presented as an entrance-unit should include the study of a standard modern text-book equivalent to Martin's *The Human Body*, preceded by general work in Botany and Zoology.

Zoology. The course presented in Zoology should consist mainly of laboratory and field work on the common animals found in the vicinity of the student's home, with careful records and drawings well arranged. A good text-book, such as Linville and Kelly's *Zoology*, should be used as a basis for the work.

Applicants for admission must present satisfactory testimonials of good moral character.

All candidates for admission to the College, whether by examination or certificate, must present themselves for enrollment at Pearsons Hall at 9:00 A. M. on Tuesday, Sept. 19th, 1911. Entrance examinations will be held at 2:00 P. M. on that day, in Pearsons Hall.

All students enter the College provisionally for a semester. At the close of this period those approved by the Faculty are formally matriculated by the President and come into full standing as members of the institution.

Each student must be a member of one of the four regular College classes, and must carry at least twelve hours of class-work. Students in special studies are not received.

ADVANCED STANDING.

If the student applying for entrance to College can present more than the fifteen units required, he may be granted advanced standing in the extra studies presented, either on recommendation of the head of the department in which advanced credits are sought, or as the result of inspection and acceptance by the College of the work in the secondary school in which the courses were taken; but not more than one unit, in addition to the fifteen required, will be accepted for work done in a regular four-year course of study in a secondary school. For advanced credit in science, laboratory note-books must be presented.

Students who have taken part of the college course in other institutions of approved rank are admitted to advanced standing on the basis of satisfactory credentials of character and scholarship.

ADVANCED STANDING FROM NORMAL SCHOOLS.

1. Graduates from the present Latin and German courses of the State Normal Schools in Wisconsin, who have selected courses of college grade during the Normal course, are granted full Junior rank (60 semester-hours) at Beloit College.

2. Graduates of State Normal Schools who have not met the above requirements are given a proportional amount of credit, which must be determined in individual cases upon the submission of records to the Registrar of the College.

3. The requirements for the B. A. and for the B. S. degree as laid down in this catalogue must be fully met for graduation. These include:

a. The equivalent of 40 semester-hours of High-School work in Foreign Language.

b. Four semester-hours of College Rhetoric.

c. The equivalent of 12 semester-hours of College Science, in addition to the entrance requirements in Science.

d. The requirement of a Major subject pursued for 20 semester-hours and two Minor subjects pursued for 12 semester-hours each, as prescribed in this catalogue. A part of this requirement would be met by conformity with *c* above.

ADMISSION FROM ACCREDITED SCHOOLS.

Graduates of all schools accredited by Beloit College are admitted to the Freshman class without examination, when properly recommended by the principal or superintendent of schools. Graduates of distant schools of established reputation, but not accredited by the College, may be admitted upon presentation of certificates properly signed, and their approval by the Registrar.

Blank certificates for the recommendation of pupils will be furnished upon application to the Registrar of the College. Applicants for admission are expected to forward to the Registrar such certificates, properly filled out and signed by the principal or superintendent of schools, before the opening of the First Semester.

For regulations governing entrance to the College from Normal Schools in Wisconsin, see the preceding section. Graduates from State Normal Schools in other states are accepted on the same basis as students from Normal Schools in Wisconsin.

All inquiries pertaining to admission to College and to the accrediting of schools should be addressed to Professor H. D. Densmore, Registrar.

ACCREDITED SCHOOLS.

Students are admitted upon certificate from the following classes of preparatory schools:

1. Schools accredited by the North Central Association of Colleges and Secondary Schools, of which Beloit College is a charter-member.

2. Schools accredited as a result of personal inspection and approval by the Faculty of Beloit College.

3. Schools in Wisconsin and neighboring states which have been accredited by Universities and Colleges of recognized standing. Students from such accredited schools are accepted upon certificate, provided that their preparatory course meets the conditions for entrance outlined under "Requirements for Admission", pp. 23-28 of this Catalogue.

The Course of Study

The departments of instruction are arranged in three groups, viz:—

I. Language, Literature, and Art.
II. Philosophy, the Social Sciences, and History.
III. Mathematics, the Physical and Natural Sciences.

The Bachelor's degree is conferred on students who have successfully completed, with the required number of credits (a minimum of 42; see Scholarship and Credits, below), a four years' course of study, amounting to 120 semester-hours of work, and including a Major in one group of studies (for groups, see page 34) and two Minors, one in each of the other two groups. Those whose Major is in Group I or Group II receive the degree of Bachelor of Arts; those whose Major is in Group III, the degree of Bachelor of Science.

A Major consists of 20 semester-hours, made up of courses offered in one department, or in allied departments in such cases as are specified in the detailed statements of the departments. A Minor consists of twelve semester-hours within the studies of one group.

By a semester-hour is meant one recitation, lecture, or laboratory-period a week for one semester. Thus, a study comprising three exercises a week for one semester is reckoned as three semester-hours; one comprising three exercises a week for one year, as six semester-hours.

A Minor in Group I, if *elementary* language-courses are included, must comprise twelve *consecutive* semester-hours in a single language; it must in any case include twelve hours of foreign language. In Group II, the Minor must include at least six hours from the following subjects: Philosophy, Psychology, History, Economics, Political Science. A Minor in Group III must include at least six hours of laboratory science.

During the first two years of the course, every student is required to complete a Minor (twelve semester-hours) each in the foreign-language studies of Group I; in the studies of Group II, with the addition of English Literature; and in those of Group III.

At the close of the Sophomore year, students are required to announce their choice of a Major. The head of the department in which the Major is chosen becomes the student's adviser for the Junior and Senior years, and all the student's elections for those years are subject to his approval.

In addition to the foregoing requirements, each student must take three hours of gymnasium work in each semester of Freshman and Sopohomore years.

Any student who presents for entrance to College less than four units (see page 23) of foreign language must include in his College elections, *in addition* to the courses required for Major and Minors, as stated above, enough courses in foreign language to make good this deficiency. For this purpose, a three-hour course (or a four-hour elementary course) for one year is counted as the equivalent of one entrance unit.

Synopsis of the Course of Study

FRESHMAN YEAR.

In the Freshman year students are required to take Rhetoric two hours each semester, Biblical Literature one hour each semester, gymnasium work three hours each semester, and four of the following studies:

Biology
Chemistry
English Literature
French
German
Greek
Greek Literature (Art 3-4)
History
Latin
Mathematics

At least two of the electives must be in continuation of subjects presented for entrance. For specific requirements see page 24.

SOPHOMORE, JUNIOR, AND SENIOR YEARS.

In the three upper years students are required to elect fifteen hours each semester from the courses of the following departments. Details with regard to hours and pre-requisites of these courses, and the classes to which they are accessible, will be found below, in the description of the work of the several departments. In the Sophomore year all students are required to take three hours of work in the gymnasium each semester.

Group I.	Group II.	Group III.
Art	Archæology	Astronomy
English Literature	Biblical Literature	Biology
French	Economics and Sociology	Botany
German	History	Chemistry
Greek	Library Science	Geology
Latin	Music	Mathematics
Public Speaking	Pedagogy	Physics
Rhetoric	Philosophy	Zoology
Spanish	Political Science	
	Psychology	
	Religious History	

For the convenience of students, there have been prepared the following outlines of work required for the degrees of Bachelor of Arts and Bachelor of Science, respectively:

Course Leading to the degree of Bachelor of Arts.

Major Subject (Group I or II)	20 hours
Related Subjects	18 hours
Minors:	
Laboratory Science	6 hours
Science or Mathematics	6 hours
Foreign Language (unless included in Major)	12 hours
Studies in Group II (unless included)	12 hours
Freshman required subjects:	
Rhetoric	4 hours
Biblical Literature	2 hours
Free electives	52 hours
	132

At the option of the Major adviser, 24 hours may be required in the Major subject; in this case, however, only 15 hours are required in related subjects. The latter need not be in the same group as the Major.

The Minor in Group II must include six hours from the subjects specified at the foot of page 32.

Course Leading to the degree of Bachelor of Science.

Major Science	20 hours
Related Sciences	18 hours
Minors:	
Foreign Language	12 hours
Studies in Group II	12 hours
Freshman required subjects:	
Rhetoric 1-2	4 hours
Biblical Literature	2 hours
Additional Requirements:	
Mathematics	6 hours
Rhetoric 3	3 hours
Free electives	43 hours
	120

In addition to the courses stated above, the Major adviser may require six hours not specified, in individual cases.

A thesis may be required in the Major subject, and may count as two or three semester-hours.

In Foreign Language, at least six hours of College German beyond Course 1-2, and six hours of College French, must be taken.

The Minor in Group II must include six hours from the subjects specified at the foot of page 32.

Departments of Instruction

ARCHAEOLOGY

Professor Collie

1-2. Archæology. *Year Course.*

1. First Semester.
2. Second Semester.

A study of the arts, manufactures and life of early man. Full use is made of the magnificent Logan Collection, which is owned by the College. This course is required of all who intend to apply for positions in the Museum. Lectures.

Sophomore Year, two hours. In 1910-11 this course will be given in a condensed form in the Second Semester, owing to Professor Collie's absence the First Semester.

ART AND LITERATURE

Professor Wright

3-4. Greek Literature.

3. First Semester: Iliad, Odyssey, Lyric Poetry.
4. Second Semester: Greek Drama, Greek Prose.

This course is intended to be fundamental to the understanding of the more modern literatures, so far as they are based upon the form and content of the ancient Classics. The ancient works are studied in the best translations and compared with related forms in other literatures. Lectures are given on important phases of Greek life and Greek expression.

Three hours, Freshman year; elected by the semester. Open to Freshmen who present four units of English for entrance to College; from those whose high-school course in the history of English Literature is satisfactory to the English Department, it will be accepted in lieu of English Literature 1-2 as a pre-requisite for advanced courses in English Literature.

1-2 Classical Art.

1. First Semester: Greek and Roman Art.
2. Second Semester: Rennaissance Art.

Courses introductory to the elementary principles underlying all art, as illustrated in the architecture and scultpure of Greece and Rome and in the arts of the Renaissance. The students' work is based upon a laboratory study of the University Prints issued by the Bureau of University Travel. Lectures are illustrated by lantern slides and by the casts of the Fisher collection in the Art Hall.

Junior or Senior Year, three hours; elected by the semester. Given annually.

ASTRONOMY.

PROFESSOR HAMILTON

1. Elementary Descriptive Astronomy.

A simple text-book is taken as a basis and read by the class. This is amplified by lectures and illustrated by lantern-slide views, and is accompanied by a limited amount of observatory work. The course is non-mathematical; it is primarily intended to give a culture-view of the subject, and aims to take up those aspects of the science with which every educated person should be acquainted.

First Semester, Scphomore, Junior, or Senior Year, three hours; given annually.

8. Modern Astronomy and Astrophysics.

A continuation of course 1, or of course 3-4. It consists of two parts: (a) A series of lectures, of two hours per week, upon the theory of light, especially in its astronomical bearings; the physical theory of the sun; and the condition and development of the fixed stars and nebulæ. (b) One laboratory period per week in the Physics department, under the direction of Professor Culver. The experiments consist of measurements of wave-lengths, investigation of the laws of lenses, the principles of the spectroscope, spectrum analysis, absorption and polarization of light.

Second Semester, Sophomore, Junior, or Senior Year, three hours. Given in 1911-12, and alternate years.

5-6. Introduction to Celestial Mechanics. *Year Course.*

5. First Semester.
6. Second Semester.

Elementary dynamics, including central forces and the problem of two bodies. Computation of orbits.

Junior or Senior Year, three hours. Pre-requisite, Mathematics 5-6. Given when desired by a sufficient number of students.

BIBLICAL LITERATURE

Professor Deane

It is the aim of this department to put the student into possession of the methods and apparatus of Biblical and religious study and thus to open the way for a permanent interest in the prosecution of these vital themes. These methods are illustrated by study of various portions of the Bible and also of religious history. The student is introduced to the most helpful of the abundant literature on these topics, but he is encouraged above all to deal directly with the Bible itself, that he may not be altogether dependent upon other books in his further study. The work is primarily arranged in the interests of those who seek acquaintance with these historic and stimulating subjects as an essential part of a liberal education. While some freedom in the order of election is allowed, it is desirable that course 11-12 should be covered in the Sophomore Year.

General Introduction

1-2. Biblical Introduction. *Year Course.*

1. First Semester.
2. Second Semester.

A general introduction to Biblical study, covering in outline the traditional story of the Hebrew race, the rise of the Hebrew sacred literature, the life of Jesus Christ, the development of the New Testament writings, and the history of the transmission of the Bible to our own day. The purpose of the course is to give a connected acquaintance with the data which form the basis of Biblical study. **Lectures and references.**

Freshman Year, one hour. Given annually, and required of all students.

Old Testament.

11-12. Old Testament History and Literature.

11. First Semester: the history and literature of the Hebrews down to the fall of Jerusalem, 586 B. C.; the origin of the Hebrews and their relation to other Semitic peoples, early religious and political institutions of the Hebrews, the monarchy; early literature, the rise of prophecy, and the beginning of written prophecy.

12. Second Semester: the history and literature of the Jews in the Babylonian, Persian and Greek periods. the rise and development of Jewish religious institutions and customs, the later prophets and apocalyptic writers; the literature of law, philosophy and devotion.

Sophomore Year, two hours. Elected by the semester. Given annually.

7-8. Hebrew. *Year Course.*

7. First Semester.
8. Second Semester.

The forms and syntax of the Hebrew language; readings in the Old Testament. The course includes a study of the genius of the language in its relation to the contents and permanent value of the Hebrew Scriptures. Students desiring this course should give early notice, since it will not be given every year.

First Semester, three hours; Second Semester, two hours.

New Testament

10. Teachings of Jesus.

Ruling ideas in the religious and ethical teaching of Jesus, with some reference to the problems of today. The course embraces an account of existing religious conditions in the time of Jesus, and a study of the origin and mutual relations of the four Gospels.

First Semester, Junior or Senior Year, two hours. Given annually.

9. Christian Origins.

A study of the thought and life of the Apostolic Age as presented or reflected in the book of Acts and the Epistles, with special attention to the development of Christian doctrine and the beginnings of Church institutions and customs.

Second Semester, Junior or Senior Year, two hours. Given annually.

Note.—The attention of students in this department is directed to the courses in Religious History, in New Testament Greek (Greek 13), and in Religious Education (Pedagogy 6).

BIOLOGY

Professor Densmore, Assistant Professor Risser, Mr. Haines, Miss Huschka

PROFESSOR DENSMORE

1. Plant Biology; forms a *Year Course* with 2.

The course in Plant Biology comprises three main topics:—(1) the cellular structure of organisms, illustrated by studies of cell division and cell differentiation in the higher plants; (2) the reproductive processes and life histories of organisms, illustrated by a series of plants selected from algæ and fungi; (3) nutrition of green plants and fungi, including the discussion of the general topics of fermentation, disease, and decay. Lectures and laboratory work.

First Semester, three hours. Open to all classes. Given annually.

ASSISTANT PROFESSOR RISSER.

2. Animal Biology; forms a *Year Course* with 1.

A course illustrating the facts and laws of Biology from representative animal types. The main topics discussed are: structure and function of the animal cell, as compared with the plant cell; reproduction, modification in structure of the great groups of animals, their advancement in organization from simple to complex; the relation of the groups and their distribution. Laboratory work, lectures and recitations.

Second Semester, Freshman Year, or First **Semester,** Sophomore Year, three hours. Given annually.

NOTE.—The above courses must be taken as a Year Course by Freshmen; members of upper classes may elect them by the semester.

BOTANY

PROFESSOR DENSMORE, MR. HAINES, MISS HUSCHKA

Requirements. Plant Biology, 1, or its equivalent, is a necessary pre-requisite for all Botany courses . Students who wish to present equivalents for the Biology course should file with the instructor laboratory and note books in courses offered as equivalents. Twenty semester-hours are required for a Major in Botany, of which the course in Animal Biology, 2, may count for three hours.

Minor and Major Course Combinations. All courses in Botany may be elected by the semester, but certain advantageous combinations of semester courses to form year-courses are suggested under Minor and Major Course Combinations.

I. *Minor Course Combinations.* Students who wish to elect but one year of Botany following Plant Biology, 1, should take combination *a* below, or combination *a* with course 4, on Classification of Seed Plants. Students who desire more than one year on the subject may take for the first year's work either combination *a* or *b*, with course 4 (Classification of Seed Plants).

a. Morphology and Plant Physiology.
  2. Morphology of Seed Plants. First semester, three hours.
  6. Plant Physiology. Second semester, three hours.

b. Morphology of Seed and Spore Plants.
  2. Morphology of Seed Plants. First semester, three hours.
  1. Morphology of Ferns, Mosses and Liverworts. Second semester, three hours.

c. Classification of Seed Plants.

4. Classification of Seed Plants. Second semester, **one hour.**

II. *Major Course Combinations.* The Major course combinations are designed to follow one of the Minor combinations, *a* or *b*, for the second and third year's work in Botany. They may be taken in the order suggested below, or may be combined with Minor courses not completed in the first year's work. Prospective students of Agriculture should take the Minor combination *a*, with courses 3, 4, 5, and 7. Prospective students of Forestry should elect the Minor combination *a*, with courses 1, 3, 5, and 7. Students who expect to take graduate work in Botany should take with their Major work courses 7 and 8.

d. Anatomy, Embryology and Cytology.

5. Anatomy and Histology. First semester, three hours.
7. Embryology and Cytology. Second semester, three hours.

e. Morphology and Thesis Course.

3. Algæ and Fungi. Second semester, three hours.
8. Thesis Course. First or Second semester, three hours.

f. Minor Courses not taken in the first year's work.

1, 6, or 4, if not taken in the first year, may be combined as desired with any of the Major courses.

Description of Courses in Botany

I. Minor Courses.

2. Morphology of Seed Plants—Cycads, Conifers and Flowering Plants.

A comparative study of cycads, pines and flowering plants, with reference to their structure and development. The elements of plant structure are given to furnish a preparation for the course in Plant Physiology, 6.

First semester, three hours. Pre-requisite, Biology, 1. Given annually.

6. Experimental Plant Physiology.

The general principles of Plant Physiology, with lectures and laboratory work. The laboratory work includes experiments in the physiological laboratory on respiration and digestion, photosynthesis, absorption and irritability.

Second Semester, three hours. Pre-requisite, course 2. Given annually.

1. Ferns, Mosses and Liverworts.

The nature and development of ferns, mosses and liverworts and their allies. This course, combined with course 2, on Seed Plants, forms a year course on the higher spore-bearing and seed plants.

Second Semester, three hours. Pre-requisite, Biology 1. Given annually.

4. Classification.

A field course designed to acquaint the student with the classification, habits and distribution of the main groups of seed plants. The common trees, shrubs, and plant groups of economic importance receive special attention.

Second Semester, one hour. Given annually.

II. Major Courses.

5. Plant Anatomy.

The anatomy and histology of seed plants, with methods of preparing plant tissues for study, including fixing, mounting and staining. Special attention is given to the structure of wood and to the growth and anatomy of forest trees.

First Semester, three hours. Pre-requisite, Biology 1. Given annually.

7. Embryology and Cytology.

Advanced studies on the embryology and cytology of the higher plants, with special methods of killing, fixing and staining tissues for study. Laboratory work and collateral reading, with lectures on modern cell theories of Sex, Heredity, Hybridization and Plant Breeding. The lectures and collateral reading may be taken without the laboratory work, and will count for one hour.

Second Semester, three or four hours. Pre-requisites, courses 2 and 5. Given in 1910-11.

3. Algæ and Fungi.

Field studies and laboratory work, supplementary to the course in Plant Biology, on the main groups of Algæ and Fungi. Fungous diseases of trees and the cultivated plants will be emphasized in this course.

Second Semester, three hours. Given in 1910-11 and alternate years.

8. Thesis Course.

Special studies, with collateral readings and a thesis, are offered to Seniors who have taken Major work in Botany. The topics for study are to be arranged with the instructor. Courses 5 and 7 are usually necessary as a pre-requisite for this course.

First or Second Semester, three hours. Given in 1910-11.

CHEMISTRY

PROFESSOR E. G. SMITH, DR. MCLEOD, MR. GLEGHORN

1-2. General Chemistry. *Year Course.*

1. First Semester.
2. Second Semester.

During the first semester, lectures, recitations, and laboratory work with the non-metals. For the second semester, lectures on the metals, with recitations and laboratory work. Three recitations, or laboratory periods, and one lecture weekly.

Freshman Year, three hours. Given annually.

3-4. Qualitative Analysis. *Year Course.*

3. First Semester.
4. Second Semester.

A course in qualitative chemical analysis, beginning with the simple re-actions of the metals. The latter part of the course will be devoted to the study of the analysis of natural compounds, commercial products, and inorganic preparations. During the second semester a brief course in determinative mineralogy is introduced, with special reference to the natural occurrence of the elements and study of the methods of dry analysis.

Sophomore Year, three hours. Pre-requisite, course 1-2. Given annually.

5-6. Quantitative Analysis. *Year Course.*

5. First Semester.
6. Second Semester.

The course will include the simpler quantitative determinations and the quantitative analysis of a series of alloys and natural minerals, concluding with analyses of the silicates. Both gravimetric and volumetric methods will be studied. During the year a seminar course in reading on some phase of Theoretical Chemistry is introduced.

Junior Year, three hours. Pre-requisites, courses 1-2 and 3-4. Given annually.

7-8. Organic Chemistry. *Year Course.*

7. First Semester.
8. Second Semester.

A course of lectures on Organic Chemistry. The course may be taken with or without laboratory work on the preparation of a limited number of compounds supplementing the lectures, and illustrating the more common laboratory processes.

Sophomore, Junior, or Senior Year, two or three hours. Pre-requisite, course 1-2. Given annually. The lecture course counts for two hours; when laboratory work is included, three hours. Both courses are required of students electing for pre-medical work.

9. Physical Chemistry.

In this course will be taken up some of the modern theories of Chemistry, especially those dealing with Gases, Thermochemistry, Solutions, the Phase Rule, Ionization, etc. The course will be based upon text-book work, with readings, laboratory work, and discussions.

First Semester, Junior or Senior Year, three hours. Pre-requisites, course 1-2, and Physics 1-2. It is expected that the student shall have had also courses

3-4 and 5-6, and Mathematics through Calculus. Given in 1910-11.

10. Electro-Chemistry.

A course in Electro-Chemistry, in which will be discussed the modern theories relating to the subject and their application to the chemical industries and to electro-analysis. Lectures, readings, and laboratory work.

Second Semester, Junior or Senior Year, three hours. Pre-requisites, as under course 9, including also that course. Given in 1910-11.

12. Applied Chemistry.

An elementary discussion of the application of Chemistry to industry and the arts. The course will be given by lectures and reports on chemical manufactures on the large scale, such as the acid and alkali industries, dyeing, and the manufacture of cements, leather, paints, etc.

Second Semester, Junior or Senior Year, two hours. Prerequisite, course 1-2. Given in 1910-11.

16. Sanitary Chemistry.

A course in Sanitary Chemistry, in which the study of natural waters, drainage, air, foods, etc., is taken up. The course is given by lectures, laboratory work, and reports on special topics.

Second Semester, Junior or Senior Year, two hours. Prerequisites, courses 1-2, 3-4, and 7-8. Given in 1911-12.

20. Teachers' Course.

A study of methods of teaching Chemistry in the secondary schools. Lectures and discussions.

Second Semester, Junior or Senior Year, one hour. Given in 1910-11.

NOTE.—The courses in this department are numbered consecutively, and it is expected that elections will be made following the numbering of the courses.

Students entering from approved secondary schools, and presenting more than the number of units required for admission to College, and having the full equivalent of course 1-2, may present their records, together with their laboratory note-books; after passing a satisfactory examination, they will be accepted for a certain number of hours, but without honor credits. Any student, however, desiring to take Chemistry as a Major study will be required to take General Chemistry 2 with a regular College class. Students electing Chemistry as a Major are expected to take course 1-2 during Freshman Year, and to plan the course so that at least six hours shall be taken during Senior Year. Where Chemistry is taken as a Major, and Mathematics or Physics as the related study, the student will be required to elect Mathematics through Calculus; with any other subject as the related study, the student is urged to make the same election.

ECONOMICS AND SOCIOLOGY

PROFESSOR CHAPIN

21-22. Economics.

The principles of Economics, with some training in the application of these principles in the interpretation of the facts of present-day industry and commerce. Pre-requisite for all other courses in this department. Ely's *Outlines*, revised edition, is used as a text, with assigned readings in other authors. Recitations, lectures, and exercises in the discussion of illustrative problems.

First and Second Semester, Sophomore, Junior, or Senior Year, three hours. Given annually. A year-course, but may be dropped at end of the first semester. Sophomores may elect either Economics 21-22 or Political Science 1-2 (Government), but not both courses.

3. Finance.

Public revenues and expenditures, governmental industries, taxation, the budget, public debts, considered with especial reference to conditions prevailing in the finances of the local, state, and national governments in the United States. Adams'. *Finance* is used as a text, together with lectures and topical readings.

First Semester, Junior or Senior Year, three hours. Pre-requisite, course 2. Given in 1910-11, and alternate years.

5. Money and Banking.

The functions of money, coinage, bi-metallism, credit, banking, credit currency, bank notes. Recitations in Scott's *Money and Banking*, lectures, readings in various standard texts and official reports.

First Semester, Junior or Senior Year, three hours. Pre-requisite, course 2. Given in 1911-12, and alternate years.

6. Railroad Transportation.

This course aims to present the economic rather than the technical aspects of transportation, and includes a discussion of the organization, functions, and administration of the railroads of the United States, and their relations to society and government.

Second Semester, Junior or Senior Year, three hours. Pre-requisite, course 2. Given in 1911-12, and alternate years.

8. Industrial Corporations.

The economic advantages of corporate organization; concentration of control through agreements, trusts, and consolidation of corporations; the economic effects of monopolistic combinations; proposed methods of legal regulation.

Second Semester, Junior or Senior Year, three hours. Pre-requisite, course 2. Given in 1910-11, and alternate years.

9. Sociology.

A study of modern local social groups is made the starting-point for the discussion of the historic forms of social organization and the interaction of the social forces seen in social evolution. Lectures, with assigned readings and topical reports.

First Semester, Junior or Senior Year, three hours. Pre-requisite, course 2. Given annually.

10. Social Problems.

A discussion of certain social problems of modern life, with reference on the one hand to biologic and economic causes and on the other hand to policies and agencies directed toward the improvement of existing conditions. Lectures, assigned readings, and topical reports.

Second Semester, Junior or Senior Year, three hours. Pre-requisite, course 2. Given annually.

11. Socialism.

A study of the works of representative socialistic writers of the nineteenth century, their criticisms of the industrial organization of society, their constructive proposals, their practical experiments.

Second Semester, Junior or Senior Year, three hours. Pre-requisite, course 2. Given in 1910-11, and alternate years.

13. Modern Philanthropy.

The causes of poverty, the history of methods employed in dealing with poverty, disease, and crime, the principles of organized charity, the rise of preventive philanthropy, and the most important of the agencies now engaged in the work of social amelioration. Emphasis is laid upon preventive rather than merely remedial efforts. Lectures, readings, and topical reports.

First Semester, Junior or Senior Year, three hours. Prerequisite, course 2. Given in 1911-12, and alternate years.

14. Financial History of the United States.

A study of the financial legislation of the United States and the administration of the Treasury Department, considered with reference to the economic development of the country and the political influences that shaped the financial policy of the government. Dewey's text is used, with the preparation of reports by the use of the public documents.

Second Semester, Junior or Senior Year, two hours. Pre-requisite, course 3. Given in 1910-11, and in alternate years.

A Major in Economics consists of 20 hours. As correlated subjects, those who take a Major in this department will select 18 hours, under the advice of the instructor, from the following courses: History, 1-2 (Mediæval History), 7-8 (English History), 11-12 (English Constitutional History), 21-22, (American History); Political Science 1-2 (Government).

ENGLISH LITERATURE

PROFESSOR CHASE, MISS ADAMS, MR. CRAVER, MR. SHERBURN.

NOTE.—Beginning with the year 1911-12, students may obtain admission to advanced courses in English Literature in either of the following ways:

a. By satisfactory completion of course 1-2.

b. By taking the course in Greek Literature (Art and Literature 3-4); after the satisfactory completion of a four years' course in English, including the history of English Literature, in a properly-equipped high-school. It must be understood, however, that this equivalent will be accepted only from students who have done work of a high grade in schools whose course in the history of literature is comparable, in scope and method, with course 1-2. Such students must present high-school notebooks in English, on entrance to College.

PROFESSOR CHASE, MR. SHERBURN, MR. CRAVER.

1-2. Introduction to English Literature. *Year Course.*

a. By satisfactory completion of course 1-2.

b. By taking the course in Greek Literature (Art and Literature 3-4).

A general survey of the history of English Literature, as preparation and background for further study of special periods, and training in the appreciation of literary excellence in its various forms. The course is conducted by means of lectures and recitations; the weekly lecture treats of the main features of the history; the recitations are devoted to discussion of a wide selection of readings from the literature.

Freshman Year, three hours, The course may be dropped at the close of the First Semester, but, except by consent of the instructor, may not be entered the Second Semester. Given annually.

PROFESSOR CHASE

3-4. Shakespeare.

3. First Semester.
4. Second Semester.

This course aims at bringing the student into close touch with Shakespeare's mind and art. The study is literary, rather than technical, though careful attention is given to dramatic structure. About twenty plays are read, some critically, the others rapidly; all are freely discussed in class.

Sophomore Year, three hours. Elected by the semester. Pre-requisite, see head-note. Given annually.

5. Old English.

A course in the beginnings of the English language and literature. Outlines of Old English grammar, with relations in cognate languages and in Modern English. Reading of prose and poetry, including parts of Beowulf. Lectures on Anglo-Saxon literature, and reading of extended selections in translation. A knowledge of German and one other foreign language (preferably Latin) is necessary for the pursuit of this course.

First Semester, Junior or Senior Year, three hours. Prerequisite, see head-note. Not given in 1911-12.

6. Chaucer and His Time.

A course in Middle English literature, with considerable attention to the development of the English language; it does not, however, require a knowledge of Old English. It includes the reading of *The Pearl*, and portions of the works of Langland and Gower; but the course centres about Chaucer, and aims to give a broad acquaintance with his work and an insight into its spirit.

First Semester, Junior or Senior Year, three hours. Pre-requisite, see head-note. Given in 1911-12, and alternate years.

23. Spenser and Milton and their Contemporaries.

A course in the poetry of the Elizabethan Age, from its beginnings in Wyatt and Surrey to the final expressions of the Elizabethan spirit in the work of John Milton. Full consideration will be given to various minor aspects of the poetry of the period; but the stress of the course will be laid on a careful study of the work of Spenser and Milton, in all its aspects.

First Semester, Junior or Senior Year, three hours. Pre-requisite, see head-note. Given in 1911-12, and alternate years.

MISS ADAMS

8. The Romantic Revolution.

A study of the currents in English poetry from the Restoration to the death of Burns. The career of the so-called Classical School will be traced from Waller and Dryden to Dr. Johnson, as a background for a study of the various eighteenth-century manifestations of the romantic spirit, from its beginnings in Lady Winchilsea to its triumphs in Burns and Blake. The literary criticism of the period is considered together with the poetry.

Second Semester, Junior or Senior Year, three hours. Pre-requisite, see head-note. Given in 1911-12, and alternate years.

PROFESSOR CHASE

9. The Age of Wordsworth.

A careful study of the works of Wordsworth, Coleridge, Scott, Byron, Shelley, and Keats, with some consideration of the literary criticism of their time. Each student presents to the class an original paper on some topic connected with the course.

First Semester, Junior or Senior Year, three hours. Pre-requisite, see head-note. Given in 1910-11, and alternate years.

10. Victorian Poetry.

A course in the greater poets of the past seventy years, with Tennyson, Browning, Arnold, Rossetti, Morris, and Swinburne as leading figures. An attempt is made to trace the principal currents of nineteenth-century thought, as reflected in the work of the poets; and to give the student the criteria necessary for estimating contemporary poetry. Each student presents before the class an original paper on some phase of the study.

Second Semester, Junior or Senior year, three hours. Pre-requisite, see head-note. Given in 1910-11, and alternate years.

12. The English Drama, exclusive of Shakespeare.

A study of the origins of the modern drama, of its early stages in England, of its culmination in the Elizabethan Age and its subsequent decline, and of contemporary experiments in dramatic writing. About thirty representative plays are read and discussed, with a view to making the student familiar with the various types of dramatic composition and the sources of dramatic effect.

Second Semester, Junior or Senior Year, three hours. Pre-requisites, courses 1-2 and 3-4. Given in 1910-11.

13. Bibliography for Students of English.

A course intended primarily for those who expect to teach English. Its purpose is to acquaint the student with the principal sources of information in the field of English language and literature, to help him to judge of the comparative merits of works of English scholarship, and to enable him to select wisely among text-books of English.

First Semester, Junior or Senior Year, one hour. The consent of the instructor must be obtained for admission to this course. Pre-requisite, see head-note. Given in 1910-11, but not in 1911-12.

14. Seminar.

A course for the detailed intensive study of a limited field of English literature, which is selected each year by the students in course 13. The work is largely individual, and consists of reports on special topics, which are discussed in class; and of the preparation of a thesis, which, in the case of students whose Major is English Literature, counts as the Major thesis (see p. 56).

Second Semester, Senior Year, two hours; the class meets only once a week. Pre-requisite, course 13. Given annually.

17. Elements of Literary Criticism.

Discussion of the essential elements and the various forms of literature, with brief practical exercises in the application of critical principles. Winchester's *Principles of Literary Criticism* is used as a text-book.

First Semester, Junior or Senior Year, three hours. Prerequisite, see head-note. Given annually.

ASSISTANT PROFESSOR BAKER

19. Browning.

A study of the best poems, with special emphasis on Browning's dramatic genius and his relation to the spiritual unrest of the Victorian period. The obscurer works, such as *Sordello*, are not read.

First Semester, Junior or Senior Year, two hours. Prerequisite, see head-note. Not given in 1910-11.

20. Victorian Prose.

Carlyle, Ruskin, Arnold. Attention is devoted chiefly to those works which mirror the religious and social unrest of the time: *Sartor Resartus, The Crown of Wild Olive, Culture and Anarchy.*

Second Semester, Junior or Senior Year, two hours. Prerequisite, see head-note. Not given in 1910-11.

MR. SHERBURN

25. American Prose.

A study of the development of American thought, as illustrated in the chief prose writings of American authors, from the pre-revolutionary period to the present day. Representative works of fiction will be included in the course.

First Semester, Junior or Senior Year, three hours. Pre-requisite, see head-note. Given in 1910-11.

24. American Poetry.

A study of American poetry, from the publication of Bryant's *Poems* to the death of Lowell; Bryant, Poe, Emerson, Longfellow, Whittier, Holmes, Lowell, Whitman. Relations to English poetry are discussed, but more emphasis is placed upon the distinctively original elements in American verse.

Second Semester, Junior or Senior Year, three hours. Pre-requisite, see head-note. Given in 1910-11.

MISS ADAMS

21. Teachers' Course.

A course for those intending to teach English in high school. Discussion of problems and methods, practice in teaching and theme-correcting, class-visitation, review of English grammar.

First Semester, Senior Year, two hours. Given in 1910-11.

22. English Essays.

A study of the work of English essayists, from the sixteenth century to the present day, considered in relation to the history of English thought and the development of English prose style.

Second Semester, Junior or Senior Year, three hours. Pre-requisite, see head-note. Given in 1910-11.

26. The English Novel.

A study of the development of the novel, from Addison's *De Coverley Papers* to the novels of Meredith. The structure and elements of the novel. Reading and study of the representative novels of the period. Lectures, reports, and class criticisms.

First Semester, Junior or Senior Year, three hours. Pre-requisite, see head-note. Given in 1910-11.

For a Major in English Literature, courses 1-2, 3-4, *either* 5

(Old English) *or* 6 (Chaucer), 13 and 14 are required; the work of course 14 includes the writing of a thesis. Those who expect to teach English should elect the Teachers' Course (21). In addition, the student must take at least one year of advanced Rhetoric. He is also advised to elect at least twelve hours of History—preferably courses 1-2 and 7-8; Greek Literature (Art and Literature 3-4); Art 1-2; History of Philosophy (Philosophy 5-6); and History of Music (Music 7-8). A good knowledge of Latin is almost an essential for effective work in English Literature.

ETHICS

President Eaton

1. Ethics.

An introductory course, sketching the rise and development of various moral conceptions and codes, and discussing the leading ethical theories, with their bearings on some of the present problems of society.

First Semester, Senior Year, one hour. Required of all students. This course is followed by Philosophy 7, to which it is pre-requisite.

FRENCH

Assistant Professor Fairfield

1-2. Beginning French. *Year Course.*
  1. First Semester.
  2. Second Semester.

The elements of French grammar; the reading of easy texts; drill in pronunciation; composition.

Freshman or Sophomore Year, three hours.

3-4. French Readings. *Year Course.*
  3. First Semester.
  4. Second Semester.

Modern short stories and dramas. Lectures on the development of French literature. Conversation and composition.

Sophomore, Junior, or Senior Year, three hours.

5-6. French Drama.

5. First Semester.
6. Second Semester.

General survey of the drama, from the earliest sources to the present day. The work in this course is carried on in French.

Junior or Senior Year, three hours. Pre-requisite, course 3-4, or an equivalent.

7-8. Conversation and Composition.

The practical handling of the language, written and spoken. Work carried on in French.

Junior or Senior Year, three hours. Pre-requisite, course 3-4, or an equivalent.

GEOLOGY

PROFESSOR COLLIE

11-12. General Geology. *Year Course.*

11. First Semester.
12. Second Semester.

A beginning course in Geology, in which the study of geologic processes and their results is especially emphasized. Chamberlin and Salisbury's *Geology*, Vol. 1. Laboratory work and field excursions.

Junior or Senior Year, three hours. In 1910-11 the course will be given in an abbreviated form, the Second Semester, owing to Professor Collie's absence during the First Semester.

1-2. Physiography. *Year Course.*

1. First Semester.
2. Second Semester.

The course is designed to give the student a knowledge of the surface features of the earth, dealing particularly with the development of geographical forms and the processes by which they have been made. The course is based on Salisbury's *Physiography*, with laboratory work and field excursions.

Junior or Senior Year, three hours. In 1910-11 the course will be given in an abbreviated form, the Second Semester.

3-4. Palæontology. *Year Course.*

3. First Semester.
4. Second Semester.

A history of the North American continent and its fossil life. The appearance and extinction of animals, their evolution, their value in the interpretation of the geological record. Lectures, laboratory- and field-work.

Senior Year, two hours. Not given in 1910-11.

5-6. Economic Geology. *Year Course.*

5. First Semester.
6. Second Semester.

A study of the important economic products of the earth's crust, including ores, fuels, clays, and building stone. The work is fully illustrated by means of maps, diagrams, and specimens, of which the College possesses a good collection. Lectures and study of reference books.

Senior Year, two hours. Pre-requisites, course 1-2 and Chemistry 1-2. Given in 1911-12; omitted in 1910-11.

7-8. Evolution. *Year Course.*

7. First Semester.
8. Second Semester.

This course includes a discussion of the various theories of evolution and the possible course of evolution among animals. Lectures.

Senior Year, two hours. Pre-requisites, Biology 1 and 2. Not given in 1910-11.

10. Physical Geography. Teachers' Course.

Lectures on the methods and purposes of field work, combined with field excursions. Special attention will be given to the collecting of material for high-school laboratory work. Several typical forms of topography will be studied in the field. The course will also include a study of class-teaching in high school or academy. Lesson plans; practical exemplification of class-teaching; examination on a semester's work in secondary school.

Second Semester, Junior or Senior Year, one hour.

NOTE.—All courses may be elected by the semester, but the second-semester courses are open only to those who have completed the work of the first semester. Archæology 1-2 is counted toward a Major in Geology.

GERMAN

PROFESSOR DUBEE, MR. MENGER

MR. MENGER

1-2. Elementary German. *Year Course.*

1. First Semester.
2. Second Semester.

A course for students who enter College without German. Essentials of German grammar, pronunciation, German conversation and composition, and reading of easy prose. The books used in 1910-11 are Vos, *Essentials of German*; Storm, *Die Regentrude*; Heyse, *L'Arrabbiata*; Schiller, *Wilhelm Tell.*

Freshman or Sophomore Year, four hours.

3-4. Advanced German. *Year Course.*

3. First Semester.
4. Second Semester.

Reading of Schiller's *Jungfrau von Orleans,* Lessing's *Minna von Barnhelm,* Goethe's *Egmont,* and modern prose. German composition and syntax. Constant review of German grammar.

Freshman or Sophomore Year, three hours. Pre-requisite, course 1-2, or two years of high-school German.

PROFESSOR DUBEE

7-8. German Conversation. *Year Course.*

A course in advanced German conversation, based on Fossler's *Practical German Conversation,* Krohn's *German Daily Life,* and a German daily newspaper.

Sophomore or Junior Year, three hours. Pre-requisites, courses 3-4 and 9-10. Given in 1910-11, and in alternate years.

9-10. Advanced German Syntax and Prose Composition. *Year Course.*

9. First Semester.
10. Second Semester.

A course based on Jagemann's *German Syntax.* Writing of German themes and discussions of linguistic difficulties.

Sophomore or Junior Year, two hours. Pre-requisite, course 3-4. Required of students who expect to teach German in high schools.

MR. MENGER

11. Lessing, Herder, and the Beginning of the Classical Period.

This course aims to give an outline of the earliest beginnings of German literature, the reading of the *Nibelungenlied,* lectures on German literature before Lessing's time, and the critical reading of two or more important works of Lessing.

First Semester, Sophomore or Junior Year, three hours. Pre-requisite, course 3-4.

12. Herder and the Storm and Stress Period.

Continuation of course 11. Critical reading of two or more important works of this period, outside readings, reports, and lectures.

Second Semester, Sophomore or Junior Year, three hours.

PROFESSOR DUBEE

13. Lyric Poetry in the Eighteenth and Nineteenth Centuries.

The development of lyric poetry in German literature; reading of the best productions, with special emphasis upon the lyrics of Goethe, Schiller, and Heine.

First Semester, Sophomore or Junior Year, three hours. Given in 1910-11, and in alternate years. Pre-requisite, course 3-4.

14. German Drama in the Nineteenth Century.

Critical reading of three or more dramas in the class-room, lectures, reports on outside readings.

Second Semester, Sophomore or Junior Year, three hours. Given in 1910-11, and in alternate years. Prerequisite, same as for course 13.

16. History of the German Language.

Lectures, and the translation of Middle-High German texts.

Second Semester, Senior Year, two hours. Not given in 1910-11.

17. Schiller and His Time.

A study of the dramatic, lyric, and prose works of Schiller. Lectures on Schiller's artistic development, his influence on the nineteenth century, and the political, economic, social, and literary conditions of his time. Reports on outside readings.

First Semester, Junior or Senior Year, three hours. Given in 1910-11, and in alternate years.

18. Schiller and His Time.

A Continuation of Course 17.

Second Semester, Junior or Senior Year, three hours.

20. Teachers' Course.

Methods of teaching German in the secondary schools. Criticism of text-books; class visitation; practice-teaching; review of German grammar and composition.

Second Semester, Senior Year, two hours. Required of students who expect to teach German.

21. Masterpieces of the Nineteenth century.

Rapid reading of the best modern German prose. Lectures on the political, economic, social and educational conditions in Germany during the nineteenth century. Reports on outside readings.

First Semester, Junior or Senior Year, three hours. Not given in 1910-11.

22. Masterpieces of the Nineteenth Century.

A Continuation of Course 21.

Second Semester, Junior or Senior Year, three hours. Not given in 1910-11.

23. Goethe's Life and Works.

Careful reading and critical analysis of Goethe's greatest works, outside readings and reports. Lectures.

First Semester, Junior or Senior Year, three hours. Not given in 1910-11.

24. Goethe's Faust.

This course should be taken as a continuation of course 23, which is intended as an introduction to Goethe's *Faust*.

Second Semester, Junior or Senior Year, three hours. Not given in 1910-11.

GREEK

Professor Wright

1-2. Elementary Greek. Greek Grammar; Xenophon and Homer. *Year Course.*

1. First Semester.
2. Second Semester.

This course, introductory to course 3, is offered to students entering College with no knowledge of Greek.

Freshman or Sophomore Year, four hours.

3. Homer .

Two or three books of the *Odyssey* are read slowly, with study of details in language and style; large portions of the epic are then read much more rapidly, with a view to literary appreciation and to a study of the heroic life of Homeric Greece.

First Semester, Freshman Year, three hours. Pre-requisite, course 1-2, or its equivalent in high-school Greek.

4. Herodotus, Xenophon, and Plato.

Passages from Herodotus are made the basis of a review of the history of Greece during the Persian Wars and the century preceding. The life, character, and times of Socrates are studied from portions of the following texts: Xenophon's *Memorabilia* and *Symposium*, Plato's *Apology* and *Crito*, *The Clouds* of Aristophanes.

Second Semester, Freshman Year, three hours.

5-6. Euripides, Sophocles, and the Lyric Poets.

5. First Semester.

6. Second Semester.

In these courses the history, form and spirit of the Greek drama are studied. Three or four tragedies are translated, one of which is done into English verse by the members of the class. This version is often given in public as a dramatic rendering. During the latter part of the year selections from Greek Lyric Poetry are translated by the class and compared in style and content with the songs of other peoples.

Sophomore Year, three hours.

7-8-9-10. Greek Orators, Philosophers and Comedians.

To such students as are prepared for advanced Greek readings these semester courses are offered. The works studied are selected according to the requirements and tastes of the students electing.

Junior and Senior Years, two hours.

13. New Testament Greek.

A study of the characteristics and style of the Greek of the New Testament. This course is intended specially for students of Biblical Literature, and is counted toward a Major in that subject.

First Semester, Junior or Senior Year, one hour.

15-16. Greek Literature in English.

15. First Semester.

16. Second Semester.

This course includes the study of a manual of the history of Greek Literature and the reading of selected translations from the Greek, with lectures on certain typical phases of Greek art and life. It is intended particularly as a basis for the study of the later European literatures.

Junior and Senior Year, three hours.

HISTORY.

PROFESSORS RICHARDSON, WAY, WRIGHT, CALLAND.

MAJOR REQUIREMENT.—Twenty-one hours satisfies the Major requirement in History. Under ordinary circumstances, a student intending to elect a Major in History should plan to take the courses in Mediæval History (1-2), English History (7-8), and American Political History (21-22). In any case, elections should run wholly neither to European and English, nor to American History.

MINOR REQUIREMENT.—Students whose Major is in History are required to take eighteen hours in related subjects prescribed by the department. Six hours of these shall be Political Science 1 or 2, and Economics 2. The remaining twelve hours will be prescribed after consultation with the student.

STUDENTS EXPECTING TO TEACH HISTORY IN SECONDARY SCHOOLS. —The department's recommendation of those desiring to teach History as their main subject in Secondary Schools is, under ordinary circumstances, conditional upon taking three hours of History in addition to the Major, and the departmental Teachers' Course, two hours. Recommendation of those desiring to teach History as a minor subject is conditional upon satisfactory completion of at least twelve hours in History, divided between European and American. It is advisable that students expecting to teach History should consult with the department as early as possible as to the election of studies.

A good reading knowledge of French and German is highly advisable in all courses in European History, and of the classical languages in courses dealing with the mediæval and ancient periods.

PROFESSOR RICHARDSON

1-2. Mediæval History. *Year Course.*

The general history of Continental Europe, from the fall of the Roman Empire of the West to the sixteenth century. In this course are included the bases for subsequent development existing at the fall of the Empire; mediæval relations of church and state; Feudalism; Crusades; the beginnings of modern nationalities; mediæval culture. Recitations and lectures.

Freshman Year, three hours. Given annually.

43. Mediæval Culture.

A course covering selected topics illustrative of mediæval culture, such for example as the origins and nature of mediæval other-worldiness and its reaction on politics, art and education. Some attention will be given to the Renaissance in its earlier and later aspects.

In 1910-11 monasticism is emphasized; in 1911-12 the emphasis will be laid elsewhere.

First Semester, Sophomore Year, three hours. Given in 1910-11, 1911-12.

18. History of the Reformation.

A study of the rise and spirit of Protestantism. Attention is paid to Mysticism as an antecedent both of the Reformation and of the Counter Reformation, to Luther, Zwingli, Calvin, the Jesuits, and the Council of Trent. The English Reformation is given some notice, and Scotch Presbyterianism considerably more. Considerable emphasis will be laid upon political history. Generally speaking, the course ends with the Peace of Augsburg of 1555.

Second Semester, Sophomore Year, three hours. Given in 1910-11.

4. History of Europe from 1500 to 1789.

A general course covering the rise and nature of the Protestant and Counter Roman Catholic Reformations—especially as centering about Luther, Calvin, and Zwingli—; the Inquisition, the Jesuits, and the Council of Trent; the conflict between the two movements and its termination in the Peace of Westphalia in 1648; and the dynastic rivalries of the eighteenth century, including the rise of Prussia and of Russia.

Second Semester, Sophomore Year, three hours. Given in 1911-12.

7-8. English History.

7. First Semester.
8. Second Semester.

Lectures, written exercises, and readings on the political and constitutional history of England, from the Norman Conquest to recent times. The outlines of the present system of English government are first studied as described for example in Dicey's Introduction to the Study of the Law of the Constitution. An attempt is then made to trace the development of this system in its several stages and political and social environments. Topics of prominence are: Fusion of Anglo-Saxon and Norman elements in the English Constitution; English liberty and Feudalism; the growth of Parliamentary control; the Church in England; the Tudor Despotism; the Puritan Revolution; the Revolution of 1689; and the Cabinet system.

Junior or Senior Year, three hours. Elected by the semester. Given annually.

11-12. English Constitutional History.

11. First Semester.
12. Second Semester.

This course involves a more detailed study of most of the constitutional subjects touched upon in course 7-8, as well as of very many others. Considerable time will be devoted to the study of constitutional documents. The course is offered with special reference to those intending to study law.

Senior Year, three hours. This course must accompany or follow course 7-8. Given in 1911-12.

PROFESSOR WAY

5. The French Revolution and Napoleonic Wars.

A general study of the transition from the Ancient to the Revolutionary Regime is made. The influences of the Revolution upon Europe are investigated, and Napoleon's career as a great reformer as well as a great conqueror is described.

First Semester, Sophomore or Junior Year, three hours. Given in 1911-12.

6. Modern Europe since 1815.

The course begins with an account of the re-arrangement of the map of Europe after the battle of Waterloo. It describes the system of Repression and Intervention which sought, under the leadership of Austria, to re-establish the eighteenth century Balance of Power and secure a complete suspension of the

Revolutionary and Napoleonic movements. A study of the development of the Democratic and National movements which defeated the system of Repression and made possible the formation of the modern European nations is undertaken.

Second Semester, Sophomore or Junior Year, three hours. Not given in 1910-11. Given in 1911-12.

21-22 American Political History.

21. First Semester.

22. Second Semester.

A general course in the constitutional and political history of the United States, from the Revolution to the Civil War.

First Semester: The aim is to describe the political and economic factors which entered into the formation of the American Nation.

Second Semester: The Jacksonian democracy, the entrance of the West into the control of the nation, the sectional development with the rise of manufactures, the tariff, internal improvements, land question, slavery question and clashes between the sections and the national government; the formation and history of the Whig and Democratic parties; increased slavery agitation and expansion; the territorial problems, the rise of the Republican party and the formation of the issues which caused the Civil War.

Lectures, recitations, and tests. Sources are used to a great extent, and each student prepares a topic from the sources.

Junior or Senior Year, three hours. May be elected by the semester. Best results are secured by making it a year course.

24. History of the West to 1840.

An attempt is made in this course to pay close attention to the conditions of westward migration and to the economic, political, and social aspects of the various physiographic provinces of the United States, with their results upon national development. The course offers a practical interpretation of American

Colonial history and expansion, and enables a student to understand what constitutes the American nation of to-day. The account of the spread of New Englandism and Southern influences into the West and the mingling of the two discloses the composite character of the West, the controlling element in American politics. Lectures, assigned readings, and topics.

First Semester, Junior or Senior Year, three hours. Given in 1911-12, and in alternate years.

23. Civil War and Reconstruction.

This course completes the general survey of American history. Together with a general survey of the history, 1860-1876, particular attention is given to a description of the constitutional principles which came into play during the period from 1860 to 1884. Among the topics discussed in more or less detail are: the principles of the appeal to arms, the nature and scope of the "war power", the status of the Negro as affected by the war, the various theories of Reconstruction, the adoption of the last three amendments to the Constitution, the actual process of Reconstruction, the so-called "force legislation" and the ultimate undoing of Reconstruction, the general political and social progress of the nation, the rise of the new South, but continuance of a "solid South". Uses will be made of such sources as Congressional Reports, McPherson's *History of Reconstruction,* Fleming's *Documents on Reconstruction,* and Supreme Court Decisions.

Second Semester, Junior or Senior Year, three hours.

The attention of students of American History is called to the course in American Diplomacy (Political Science 5); it is counted toward a Major in the department of History.

PROFESSOR WAY

25. Teachers' Course.

Lectures and text-book on the teaching of history in secondary schools. Class-visitation; lesson plans; practice in teaching of class. Review of important periods of history taught in high schools.

Second Semester, Junior or Senior Year, two hours. This course is intended only for those who intend to teach History in secondary schools.

PROFESSOR WRIGHT

15. Grecian History.

Lectures and recitations emphasizing those Greek events and institutions that have had the most to do with shaping present ideals and modern culture. The studies will center in the Athens of the fifth century B. C.

First Semester, Freshman Year, three hours.

PROFESSOR CALLAND

16. Roman History.

Rome's early struggle for existence, the extension of her power over Italy and her conquest of the ancient world. Emphasis will be laid upon Rome's military system, her provincial administration, the development of her literature and art, the economic causes which undermined the Republic, the reception of Christianity, the greatness and decline of the Empire to the fifih century.

Second Semester, Freshman Year, three hours. Readings, recitations and lectures.

The courses in Ancient Classical History 15 and 16 as outlined above are designed to form a continuous year course. they may, however, be elected by the Semester. Given in 1911-12.

LATIN

PROFESSOR CALLAND, PROFESSOR BURR

PROFESSOR BURR

1-2. Elementary Latin. *Year Course.*

This course is offered in two parts (*a*) and (*b*) each in alternate years.

(*a*) First Semester. Latin Grammar, Reading Exercises, comparison of Latin with English.

Second Semester. Cæsar's *Gallic War*, four books. A review of noun forms and construction, Latin derivatives, prose composition.

The year's work will meet the wants of those who need the equivalent of two years of High School Latin for advanced courses in English, for the study of medicine or law, for college entrance in language, or for the further study of Latin.

(*a*) will be offered next in the year 1911-12.

(*b*) First Semester. Four to six of Cicero's orations, a review of forms and syntax, the Roman Republic, sight Latin and prose composition.

Second Semester. Four to six books of Vergil's *Aeneid*, Latin prosody and mythology. An important end of the year's work is a better knowledge and use of English through the Latin.

Part (*b*) enables those who have taken (*a*) or two or three years in the High Schools to make four units of Latin and to enter Latin courses 3 and 4.

(*b*) will be offered next in the year 1912-13.

Freshman Year, 4 hours.

PROFESSOR CALLAND

3. Cicero and Livy.

Cicero: *De Senectute* will be carefully translated and studied. Training in pronunciation; syntax of the subjunctive. Livy: Portions of books XXI and XXII. Special studies in the Second Punic War, such as the art of war among the Romans, Hannibal as a military genius, etc; Livy's literary style and his worth as a historian.

First Semester, Freshman Year, three hours.

4. Horace.

Most of the Odes and a few of the Epodes will be read. Work in scansion and training in metrical translation; critical study of Horace's life and literary style; Roman social and political life in the time of Augustus.

Second Semester, Freshman Year, three hours.

5. Plautus, Terence, and Seneca.

One play of Plautus will be translated carefully; one of Terence and one of Seneca will be read more rapidly. Emphasis is laid on the linguistic and literary importance of these authors; idiomatic translation. Frequently a Latin comedy has been translated into English verse by the class.

First Semester, Sophomore Year, three hours.

6. Tacitus.

The *Agricola* and *Germania*, and selections from the *Annales*. Peculiarities of the author's style and syntax; readings by the instructor from other Latin authorities which may throw more light upon the history of the early Germanic race and its institutions.

Second Semester, Sophomore Year, three hours.

7. Roman Antiquities.

A course of lectures on the general topic: Public and Private Life Among the Romans. The Roman assemblies, officials, temples, basilicas, thermæ, aqueducts, roads, the family, house, food, dress, schools, amusements, etc., are treated somewhat in detail. The work is illustrated by lantern slides. This course is of much practical as well as cultural value. No knowledge of Latin is required.

First Semester, Sophomore, Junior, or Senior Year, three hours. Given every year.

8. Latin Composition.

Latin forms and syntax are taken up in the grammars and thoroughly reviewed. Short sentences illustrating points of syntax are duly emphasized. More formal exercises in composition follow, the work being, for the most part, based on writings of Cicero previously read by the class. Courses 7 and 8 are required of students making Latin their Major.

Second Semester, Junior or Senior Year, three hours. Given in 1910-11. Not given in 1911-12.

16. Advanced Latin Composition.

A continuation of Course 8. Extended passages of English prose will be turned into classical Latin;

word order and idiom receive attention; simple conversation in Latin.

Second Semester, Senior Year, one or two hours. Not given in 1910-11.

9-10. Translation at Sight.

9. First Semester.

10. Second Semester.

Selections from various Latin authors, such as Cæsar, Nepos, Sallust, Ovid, Vergil, Pliny the Younger, Aulus Gellius, etc., will be translated as rapidly as possible. The object of the course is to enable the student to translate average Latin with greater comfort and rapidity. The reading of Latin without translating will be a feature of the course.

Sophomore, Junior, or Senior Year, one hour. Given whenever elected by six or more students.

11. Cicero.

The *De Officiis* or *Disputationes Tusculanae* will be read with special reference to their ethical teachings and value. Assigned topics and discussions.

First Semester, Junior or Senior Year, two hours. Given in 1910-11.

13. Horace.

Selections from the Satires and Epistles. A study of Horace's philosophy of life; the influence of Greek philosophical schools on Horace's teachings. Papers on special topics.

First Semester, Junior or Senior Year, two hours. The course will be given occasionally instead of course 11.

12. Juvenal and Petronius.

Selections from Juvenal's Satires and Petronius' *Cena Trimalchionis.* Studies in Roman satire; Roman life under the Cæsars.

Second Semester, Junior or Senior Year, two hours. Given in 1911-12.

14. Lyric and Elegiac Poetry.

Selections from Catullus, Ovid, Propertius, and Tibullus. The works and style of these writers will serve as a basis for the discussion of the literature in general of the Augustan Age.

Second Semester, Junior or Senior Year, two hours. This course will be given occasionally instead of course 12.

15. Lucretius.

Book V, with readings from the other books of the *De Rerum Natura.* Lucretius as a man, teacher, poet, and philosopher. Epicureanism among the Greeks and Romans; the atomic theory as a forerunner of modern scientific views.

First Semester, Junior or Senior Year, two hours. Not given in 1910-11.

PROFESSOR BURR

18. Teachers' Course.

A careful review of portions of Cæsar, of the syntax of cases, and of Latin pronunciation; the ends and methods of the work in the first and the second year of Latin; class-visitation and practice teaching; comparison of text-books.

Second Semester, Senior Year, one hour.

20. Teachers' Course.

A review of one oration of Cicero, and of one book of the Aeneid, of verb forms and syntax, and of versification; the ends and methods of the study and the teaching of these authors; the Latin and the English as means of the expression of thought; class-visitation and practice teaching; suggestions as to text-books and reference works.

Second Semester, Senior Year, one hour.

NOTE.—Those planning to elect both 18 and 20 may take one in the Junior Year.

LIBRARY SCIENCE.

MISS BUTLIN

1. Library Science.

A systematic study of the resources of a modern library including reference books and bibliography, indexes, classification, cataloguing, shelf department, periodicals and government documents, with a general survey of the history of books and libraries. The familiarity thus gained with a library aids the student in doing independent research work and in pursuing the study of every subject with greater facility. It also qualifies those expecting to teach to take charge of school libraries. Lectures, seminars, and practice work in the library.

First Semester, two hours. Open to all classes.

MATHEMATICS

Professor T. A. Smith, Professor Hamilton, Mr. Wharry

PROFESSOR SMITH, PROFESSOR HAMILTON

2. College Algebra; forms a *Year Course* with 1.

This is a continuation of the Algebra required for entrance. Much attention is given to graphical representation of linear equations and equations of the second degree. Mathematical induction and the binomial theorem for positive integral exponents, permutations and combinations, complex numbers, and the theory of equations are among the subjects studied.

First Semester, Freshman Year, three hours. Given every year.

1. Plane and Spherical Trigonometry; forms a *Year Course* with 2.

This course takes up the elements of trigonometry on the plane and on the sphere; it presupposes Spherical Geometry.

Second Semester, Freshman Year, three hours. Given every year.

PROFESSOR SMITH

25·5 Analytic Geometry and Calculus. *Year Course.*

25. First Semester. Analytic Geometry.

An elementary treatment of the fundamentals of Analytic Geometry, of two and three dimensions, designed to equip the student for work in Calculus, and for Engineering courses.

5. Second Semester. Calculus.

This, with course 6, makes a complete elementary course in Differential and Integral Calculus. Since the Calculus lies at the foundation of the modern treatment of the quantitative sciences, those who wish to acquire more than the mere elements of Physics, Engineering, Chemistry, and Astronomy should take courses 25, 5, and 6; these are required of all whose Major is in Mathematics.

Sophomore or Junior Year, three hours. Pre-requisites, courses 1 and 2.

6. Calculus.

A continuation of course 5, which should be taken by all taking that course, as it will be, to a large extent, the fruition of the course in Calculus. Course 5 is necessarily of a preparatory character, so that the student realizes the value of the study of Calculus in course 6.

First Semester, Junior or Senior Year, three hours. Prerequisite, course 25-5.

7. Differential Equations.

An elementary treatment of Differential Equations, with applications to Physics and Mechanics. This should be taken by students completing course 6, since it is necessary to a well-rounded course in Mathematics.

Second Semester, Junior or Senior Year, three hours.

9-10. Theoretical Mechanics. *Year Course.*

9. First Semester.

10. Second Semester.

A valuable course to those who wish to realize what Mathematics can do in its applications to problems of Nature. It should be taken by those who mean to follow some branch of Engineering. The entire year may be given to Mechanics, or the latter portion to a discussion of the elements of Fourier's series, the Theory of Potential or the Theory of Functions.

Senior Year, three hours. Pre-requisites, courses 5 and 6, and Physics 1-2.

21. Elements of Analytical Geometry and Calculus.

This course is open to those who have taken 1-2 and do not wish to take the longer courses, 25, 5, and 6, yet desire a fair preparation for teaching Mathematics in high schools. It is also recommended to students in Economics and Chemistry, as giving the essentials of the Mathematics required in certain phases of those subjects. Students who are looking forward to engineering courses, or who may wish to take a Major in Mathematics, should elect courses 25, 5, and 6, instead of this briefer course.

First Semester, Sophomore, Junior, or Senior Year, three hours. Pre-requisite, course 1-2.

22. History of Mathematics.

This course is designed to give a fair idea of the historical development of the science of Mathematics, as well as of its scope and extent. It is especially recommended to those who expect to teach Mathematics, or to go beyond the bare elements of the subject. The course may be taken separately, but it is best taken in connection with course 21.

Second Semester, Sophomore, Junior, or Senior Year, three hours. Pre-requisite, course 1-2.

MR. WHARRY

11-12. Mechanical Drawing. *Year Course.*

11. First Semester.
12. Second Semester.

A course in drafting preparatory to machine-designing, architectural drawing, or civil engineering. The course covers simple lettering and dimensioning, isometric, cabinet, and orthographic projection of simple forms, together with elementary shades and shadows and perspective.

Three hours. Pre-requisite, course 1-2.

26. Drawing and Lettering.

A course which aims to give those parts of drafting which are most useful for the surveyor and civil engineer. Especial attention is paid to plain lettering preparatory to field note work of the surveyor. The simple elements of geometrical drawing, cabinet and orthographic projections are taken up, together with a limited amount of tracing and blue-printing. This course is not recommended for those who contemplate engineering-school work after leaving College; to such students the longer course, 11-12, is commended.

Second Semester, Junior or Senior Year, three hours. Pre-requisite, course 1-2.

PROFESSOR HAMILTON

13-14. Descriptive Geometry. *Year Course.*

13. First Semester.

14. Second Semester.

A special course in Orthographic Projection, in continuation of course 11-12.

Three hours. Pre-requisite, course 11-12. Given in 1911-12 and in alternate years.

16. Surveying.

The general principles of land and city surveying, with abundant illustration by field work and reduction of data.

First Semester, Sophomore, Junior, or Senior Year, three hours.

19-20. Surveying. *Year Course.*

19. First Semester.

20. Second Semester.

The general principles of land and city surveying and the elements of topographical surveying are given, abundantly illustrated by field work and reduction of data.

Junior or Senior Year, two hours. Pre-requisites, courses 1, 2, and 11-12; or the course may be taken in conjunction with courses 11-12. Given in 1911-12 and in alternate years.

23-24. Seminar in Practical Mathematics.

23. First Semester.

24. Second Semester.

The work of the course is based upon Mellor's *Higher Mathematics for Students of Chemistry and Physics*, the larger part of which is read by the class. This is supplemented by selections from Saxelby's *Practical Mathematics* and other sources. The work is given in the form of lectures, recitations, and reports.

Senior Year, two hours. The course may be dropped by the student at the end of the First Semester. Given in 1911-12.

MUSIC

PROFESSOR TYLER

1-2. Elementary Music. *Year Course.*

1. First Semester.
2. Second Semester.

This course covers notation, intervals, keys, scales, ear training, and melodic dictation. Cummings's *The Elements of Music.*

Freshman Year, one hour.

3-4. Harmony. *Year Course.*

3. First Semester.
4. Second Semester.

Triads and their inversions; seventh, ninth, eleventh, and thirteenth chords, with their inversions; altered chords; modulation and the harmonization of melodies. Foote and Spalding's *Modern Harmony.* References: Prout, Richter, Jadassohn, and others.

Sophomore Year, three hours.

5-6. Musical Form and Analysis. *Year Course.*

5. First Semester.
6. Second Semester.

The correlation of rhythm, harmony, and melody; their power and office in musical expression; the simple musical sentence and its development into the various forms of instrumental and vocal music, emphasis being laid on the larger forms (suite, sonata, symphony, overture, etc.); analysis of standard compositions. Mason and Surette's *Appreciation of Music.* References to Prout, Bussler, Cornell, Gow, and Goodrich. Junior Year, three hours. Pre-requisite, course 3-4.

7-8. History of the Art of Music. *Year Course.*

7. First Semester.

8. Second Semester.

Music of the Greeks and early Christians. The beginnings of Harmony; Measured Music; the Development of the Sonata, Symphony, Opera and Oratorio; the great composers of the past and present. Hamilton's *Outlines of Music History.* References: Lavignac, Naumann, Paine, and others. The course is fully illustrated by means of the Piano-player, "Victor", and much solo and ensemble work by members of the Faculty of the Music Department.

Senior Year, three hours. Given in 1910-11 and in alternate years.

9-10. Musical Masterpieces. *Year Course.*

9. First Semester.

10. Second Semester.

A critical study and analysis of at least three large works in the field of oratorio, symphony, and opera. For the year 1910-11, Bach's *St. Matthew Passion,* Mozart's *Magic Flute,* and a symphony of Tschaikowsky will be read.

Junior or Senior Year, three hours. Given in 1911-12 and in alternate years.

NOTE.—The attention of students of Music is directed to the course in Acoustics (Physics 9); it is recommended to all students in the department, and counts toward a Major in Music.

The Musical Association is a large chorus, which gives two concerts yearly and affords an opportunity for study to all singers of both the College and city.

In connection with the above subjects, private instruction is offered in Organ and Piano Playing; in Voice Culture and the Art of Singing; and in Violin and other orchestral instruments.

PEDAGOGY

Professor Burr

1. Applied Psychology.

A course in the conditions and principles of mind-development in the process of education. Lectures, text-book, assigned readings, and application to school problems. These practical applications of Psychology are meant to be helpful not only to those who may teach, but to all whose work may be with the minds of men, as in the professions of medicine, the ministry, and the law.

First Semester, Junior or Senior Year, three hours. Pre-requisite, Psychology 2.

2. Methods and Organization.

A study of the ends and methods of class-instruction in secondary schools, of courses of study, school organization, city and state systems of education. Lectures, text-book, readings, lesson-plans and teaching exercises, and school visitation.

Second Semester, Junior or Senior Year, three hours. Pre-requisites: For Juniors, Pedagogy 1; for Seniors, Psychology 2.

4. History of Education.

A study of the means and aims of the Greek, Roman, and modern education. The educational reformers of the seventeenth, eighteenth, and nineteenth centuries. Text-book and assigned readings.

First Semester, Junior or Senior Year, two hours.

The above courses 1-2-4 are given each year.

Teachers' Courses of one or two semester-hours are offered in Chemistry, English, German, History, Latin, Physical Geography (Geology 10), Physics, and Zoology. Their purpose is to give some special preparation for teaching one or two subjects in high schools and academies. Descriptions of these courses will be found under the respective departments. Only two semester-hours of these courses are accepted by the College towards the 120 hours required for graduation, or by the State Board of Examiners for license to teach.

Students before electing these courses will confer with the head of the department of Pedagogy.

Combinations of Courses.

Those who expect to teach in the smaller high schools should endeavor to make these combinations in their preparation:

Botany and Physical Geography.

English, and Latin or German or History.

Latin and German.

History and Civics.

Mathematics, and Physics or Chemistry.

Note.—Those who desire the license to teach, issued by the State Superintendent of Public Instruction of Wisconsin in accordance with the requirements of the State Board of Examiners, should elect twelve hours, as follows: Psychology 2, Pedagogy 1 or 2, Teachers' courses amounting to two hours, and in addition four hours from the following courses: Pedagogy 1, 2, or 4, Psychology 6.

PHYSICS.

Professor Culver

The general course, 1-2, is designed to meet the requirements of those who wish to pursue the subject of Physics as a part of a liberal education, and also of those who desire to lay a foundation for advanced study, or to enter engineering courses.

Course 7 is designed to meet the needs of those who expect to teach Physics or other of the physical sciences.

Courses 11-12 are pre-engineering courses, as are also courses 3 and 4.

The following courses in correlated departments may be counted toward a Major in this department: Mathematics 7-23-24; Chemistry 9-18.

All courses except 7 and 9 are counted toward a Major. A thesis, for which three hours' credit is given, will be required of all students taking a Major in this department.

1-2. General Physics. *Year Course.*

1. First Semester.
2. Second Semester.

A general elementary course, covering Mechanics, Heat, Wave-motion and Sound, Light, Electricity, and Magnetism. Lectures and recitations based on a standard text, accompanied by a systematic course in quantitative laboratory practice.

Sophomore Year, four hours, consisting of three hours of lectures or recitations and one three-hour laboratory period. Pre-requisites, Mathematics 1 and 2.

3. Theory of Experimental and Applied Electricity.

A course of lectures, with collateral reading, on the fundamental principles of modern electrical uppliances and machinery, together with a discussion of electric waves and their application to wireless telegraphy and telephony, their conduction of electricity through gases, and radio-activity.

First Semester, Junior or Senior Year, three hours. Prerequisites, course 1-2 and Mathematics 5-6. Given in 1910-11 and in alternate years.

5. Electrical Measurements.

A laboratory course, covering the refined measuring of resistance, electromotive force, current, inductance, power; the standardization and calibration of the various electrical meters; and the testing of the magnetic properties of iron.

Second Semester, Junior or Senior Year, three hours. Pre-requisite, course 1-2. The student is also urged to take course 3 before electing the course in Electrical Measurements. Given in 1910-11, and in alternate years.

4. Light.

An advanced study of the theory of physical optics, covering dispersion, absorption, interference, diffraction, polarization, magneto-optics, fluorescence and phosphorescence. The course will also include a treatment of the theory of optical instruments. Lectures and recitations based on Wood's *Physical Optics*, together with collateral reading.

First Semester, Junior or Senior Year, three hours. Pre-requisites, course 1-2 and Mathematics 5-6. Given in 1911-12, and in alternate years.

7. Laboratory Manipulation. Teachers' Course.

A course in which practical training will be given in the construction, calibration, and adjustment of laboratory apparatus. The course will include practical instruction in wood and metal-turning, bench work, glass working, and photography. Attention will also be given to methods of conducting laboratory work in Physics in secondary schools.

First Semester, Junior or Senior Year, two hours. Prerequisite, one year of College Physics. Given in 1911-12 and in alternate years thereafter.

9. Musical Acoustics.

The subject matter of this course constitutes the physical theory of music, and will involve a treatment of the physical basis of pitch, chords, scales, quality, and the law of vibration of strings, plates, rods, and air in pipes. Lectures, with illustrative experiments.

First Semester, Junior or Senior Year, three hours. Given in 1910-11, and in alternate years.

11-12. Theoretical Mechanics. *Year Course.*

11. First Semester.
12. Second Semester.

The course will cover the fundamental principles of statics and dynamics. The subject will be treated from an engineering standpoint, special attention being given to practical problems. Lectures, and recitations based on Jeans' *Theoretical Mechanics.*

Junior or Senior Year, three hours. Pre-requisites, course 1-2 and Mathematics 5-6. Given in 1911-12 and in alternate years thereafter.

13-14. Applied Mechanics. *Year Course.*

13. First Semester.
14. Second Semester.

Lectures, and recitations based on Hancock's *Applied Mechanics for Engineers.*

Junior or Senior Year, three hours. Pre-requisites, course 1-2 and Mathematics 5-6. Given in 1910-11, and in alternate years thereafter.

POLITICAL SCIENCE.

PROFESSOR WAY, JUDGE ROSA, ASSISTANT PROFESSOR NEFF

PROFESSOR WAY, ASSISTANT PROFESSOR NEFF

1-2. American Government and Politics.

1. First Semester. American Federal Government and Party System.

A study of the American Government, its executive, legislative and judicial departments, together with a study of the relation of the states to the nation and of the government of the states and territories, and the American Party System, including a sketch of parties, party leaders and of presidential elections, with a study of party machinery and of current party problems.

2. Second Semester. State, City and Local Governments.

With the study of general features will be discussed the recent tendencies and improvements in state government, the relation of political parties thereto, and the needed improvements in City and Local government and the proposed plans.

This course is the introductory course in Political Science. Sophomore, Junior or Senior Year, three hours.

3. International Law.

The main Topics in Scott's *Cases on International Law* will be studied and briefs of the important cases will be prepared and recitations thereon held in class. For additional study Westlake, Oppenheim and Lawrence's *International Law* will be used.

First Semester, Junior or Senior Year, three hours. Given in 1911-12 and in alternate years.

4. Municipal Government in Europe and the United States.

The course discusses the chief causes of urban growth during the eighteenth century, the definition of the city as founded, the study of the development of the city in the United States, the position of the city in the United States, the contrast with the city in Europe, and the administration of cities. Recitations, lectures, and written exercises.

Second Semester, Junior or Senior Year, three hours. Given in 1910-11.

5-8. American Diplomacy, 1783-1910. *Year Course.*

Open to those who have taken or are taking the course in American Political History (History 21-22). The course treats of the important international relations of America, from the establishment of the United States to the present day. Recitations, lectures, and written work.

Junior or Senior Year, three hours. Given in 1910-11 and in alternate years.

6. Ideas and Theory of the State.

A study of the historical development of theories of the State, combined with an analysis of the political theories of the more important writers on the science of government and statesmanship. An examination of the nature, origin, form, and functions of the state, together with an analysis of the structure and province of government. Recitations, lectures, and written work.

Second Semester, Junior or Senior Year, three hours. Given in 1910-11, and in alternate years.

7. Constitutional Law of the United States.

This course aims to give the student an intelligent conception of the Constitution Law of the United States, both state and federal. A standard text is used, and briefs are prepared by the students upon the famous legal decisions of the Constitution, as found in Thayer's or McClain's *Cases* or Dillon's *Marshall's Decisions.* The course can be taken most satisfactorily after the student has had American Political History (History 21-22) and Government (course 1).

First Semester, Junior or Senior Year, three hours. Given in 1910-11, and in alternate years.

10. European Governments.

A study of the constitutional organization of the principal governments of Europe, especially England, France and Germany, with considerable attention to political parties and current political questions.

Second Semester Junior or Senior Year, three hours.

JUDGE ROSA

9. Commercial Law.

This course aims to present in a practical manner the Law of Contracts and Business Relations. An authoritative law text is used and cases are studied.

Second Semester, Junior and Senior Years, two hours.

For a Major in Political Science, twenty hours are required; these must include courses 1, 2, 6, and 10. The courses in American Political History (History 21-22) and in English History (History 7-8) should be taken by all Major students. The course in English Constitutional History (History 11-12) will be of great help. Courses in Economics and Sociology should be taken.

A combined Major in Political Science and American History may be taken by electing, with the advice of the Department of Political Science, course 1-2, History 21-22 (American History), together with eight additional hours in Political Science or American History, or both.

PSYCHOLOGY AND PHILOSOPHY

Assistant Professor Waugh

Psychology

2. Elementary Psychology.

An introductory course, giving, by means of lectures, recitations, and demonstrations, a general survey of the essential facts and fundamental laws of mind. Pre-requisite to all other courses in Psychology. Texts: Ebbinghaus and James.

First Semester, Sophomore, Junior or Senior Year, three hours. Psychology 2 and Philosophy 1 may be elected by Sophomores only after consultation with the head of the department and the student adviser.

3-4. Experimental Psychology. *Year Course.*

This course gives an introduction to experimental Psychology, and aims to familiarize the student with modern psychological methods, apparatus, and results. Typical experiments in the psychology of the senses, feeling and movement. Lectures, laboratory work, and required readings. Through the gift of the Trustees of the William E. Hale Fund, devoted to the advancement of scientific research, the College enjoys the use of considerable apparatus for psychological study. This apparatus is available for demonstration and for elementary practice in this course.

Junior or Senior Year, three hours. Pre-requisite, course 2. Elective by the semester.

6. Comparative and Genetic Psychology.

A systematic study of mental development in the race and in the individual. The course will sketch the evolution of mind in the animal series, and trace the growth of mental functions in childhood, with special reference to educational theory. Lectures, reports, and paper on some selected topic. Readings in Washburn, Morgan, Baldwin, Preyer, etc.

Second Semester, Junior or Senior Year, three hours. Given in 1911-12 and in alternate years.

7. Reading Course.

From time to time a Seminar course may be organized, dealing with some particular topic, or reviewing the articles in current psychological journals.

Philosophy

1. Logic.

An introduction to the study of the elements of logic, with some reference to the problems of philosophy. The course aims to give the student an idea of the processes of formal logic, and a brief sketch of the inductive method. Lectures and exercises. Text: Creighton.

First Semester, Sophomore, Junior or Senior Year, three hours.

5. History of Ancient and Mediæval Philosophy.

A study of the development of philosophic thought, beginning among the Greeks and extending to the Renaissance. The method of instruction is largely by lectures. An elementary text is read, and considerable reading will be required from the sources. Texts: Rogers, Bakewell, *Source Book in Ancient Philosophy.*

First Semester, Junior or Senior Year, three hours.

6. History of Modern Philosophy.

The growth of European thought, as shown in typical systems from Bacon and Descartes through Kant, and important tendencies in post-Kantian thought. Lectures and required readings. Texts: Rogers, Rand, *Modern Classical Philosophers.* This course may be taken independently of course 5.

Second Semester, Junior or Senior Year, three hours.

7. Ethics.

A systematic course, investigating the psychological basis of conduct, tracing the growth of moral ideas in the race, and discussing various theories of the moral standard. Text: Dewey and Tufts.

Second Semester, Senior Year, three hours. Pre-requisite, Ethics 1.

8. Metaphysics.

A critical introduction to modern philosophical problems. The nature of being, the ground of knowledge, monism and pluralism, etc., and a view of pragmatism. Text: Fullerton. Readings in Taylor, Royce, Dewey, James, and others.

Second Semester, Junior or Senior Year, three hours. Given in 1910-11.

9. Aesthetics.

This course aims to develop a general theory of art-work which shall apply to all the fine arts. The psychology of the æsthetic state is discussed, and special attention is given to the problems of unity, symmetry, rhythm, etc.

Second Semester, Junior or Senior Year, three hours. Pre-requisite, Psychology 2.

PUBLIC SPEAKING

Assistant Professor Crawford

1-2. Elementary Public Speaking. *Year Course.*

1. First Semester.
2. Second Semester.

This is an elemental course and a pre-requisite to all other work except courses 5, 10 and 11. The fundamentals aimed at are as follows: thought conception, power of analysis, orderly arranging of one's thoughts, mental grasp, self-control before the public and the effective delivery of a definite message. Incidentally such technique as the voice demands together with the correction of platform bearing complete the course. The work is developed by practical exercises and short original speeches.

Freshman Year, one hour.

3-4. The Forms of Public Address. *Year Course.*

A study is made of the more important kinds of public address, including the eulogy, after-dinner speech, political speech, and speech for a special occasion. Under each form an analysis of masterpieces and a study of principles precede the composition and delivery of addresses by members of the class.

Sophomore, Junior, or Senior Year, three hours.

6. Debating.

A practical and critical course in debate. Students appear in three debates before the class. The gathering of material, brief-drawing, and construction of the argument are done under the personal direction of the instructor. Each student also speaks several times from the floor. The theory of debate, including burden of proof and methods of proof and refutation, are studied, together with the elements of effective presentation upon the platform.

Second Semester, Sophomore, Junior, or Senior Year, three hours. Pre-requisite, Rhetoric 5. As the size of the class is limited, the consent of the instructor must be obtained for entrance to the course.

7-8. Extempore Speaking. *Year Course.*

7. First Semester.
8. Second Semester.

Students speak regularly before the class upon topics that have been assigned for investigation. The form of a short extempore speech, to meet varying situations, is first discussed critically, and then practiced by the class. The aim constantly kept in mind is to stimulate students to think out their own opinions, to use the library as a storehouse of material, and to acquire fluency in platform presentation.

Junor or Senior Year, two hours. Pre-requisite 1-2.

9. Political Speaking.

This course will be offered only to those specially qualified for the work. The Presidential and Congressional elections furnish the background for the course. The campaign questions, methods and speeches will be studied and opportunities to address political assemblies given.

First Semester, Senior Year, two hours.

10. Literary Interpretation.

This is a fundamental course in expressional reading. The purpose is to give oral expression to those thoughts in literature that too often are only faintly realized. Only nature's and truth's own response is developed. Expression for the real message's sake and not for art's sake is sought.

Sophomore, Junior, or Senior Year, two hours. (For Young Women.)

11. Public Speaking for Young Women.

This course aims to fit young women for all those public and semi-public occasions at which they might be called upon to speak. Addresses varying with the social occasions will be studied, composed and delivered. The organizing and conducting of public and social meetings together with incidental technique of the voice complete the aims of the course.

Sophomore, Junior, or Senior Year, two hours.

RHETORIC

MR. CRAVER, MR. SHERBURN, MISS ADAMS, ASSISTANT PROFESSOR CRAWFORD, MISS EMERSON

MR. CRAVER, MR. SHERBURN, MISS ADAMS, *assisted by* MISS EMERSON

1-2. Rhetoric. *Year Course.*
1. First Semester.
2. Second Semester.

The theory and practice of composition in its various forms. Text-books, lectures, and analysis of illustrative specimens selected from the masters of prose style assist the student in securing a knowledge of the principles of good writing. These principles are applied constantly in theme-writing. Each student meets the theme-correctors in frequent individual conferences. Students who are found to be deficient in spelling, punctuation, grammar, or sentence-structure will be required to take additional work to make up the deficiency.

Freshman Year, two hours. Required of all students.

MR. CRAVER

3. Advanced Composition.

For students who desire further practice in expository and descriptive writing. Discussion of principles, examination of specimen essays, and reports on assigned readings. In addition to short themes, several papers of considerable length are required.

First Semester, Sophomore, Junior, or Senior Year, three hours.

10. Journalistic Writing.

This course gives a considerable amount of rapid practice in the various forms of journalistic writing, such as news items, editorials, criticisms, and the like. There is also some examination of the purpose and methods of the modern newspaper. Short daily themes are required.

Second Semester, Sophomore, Junior, or Senior Year, two exercises, counting as three hours. Open to those who have completed course 1-2.

MR. SHERBURN

4. Short Stories.

Several short stories are written by each member of the class. Lectures and assigned readings on the principles and history of the short story, accompanied by the reading of a number of specimens.

Second Semester, Junior or Senior Year, three hours. Open to those who have attained a good rank in course 1-2.

8. Verse Composition.

Regular weekly practice in writing or translating verse in standard forms. Instruction is given by individual consultation and criticism. This course may be elected only by consent of the instructor.

Second Semester, Sophomore, Junior, or Senior Year, two hours.

ASSISTANT PROFESSOR CRAWFORD

5. Argumentation.

A study of the principles of analysis, brief-drawing, evidence, and persuasive presentation, designed to give the student ability in constructive thinking and in testing the arguments of others. Three long forensics and numerous short exercises are required. Text-book, lectures, and outside readings. This course is pre-requisite to Public Speaking 3, 6, and 9.

First Semester, Sophomore or Junior Year, three hours.

RELIGIOUS HISTORY

PROFESSOR DEANE

2. The History and Science of Religion.

A study of the religious experiences of various races and of the different periods of individual and race development. Special attention is given to the development of the Hebrew religion and to the relation of Christianity to the other world-religions of today.

Second Semester, Sophomore, Junior or Senior Year, three hours.

3. Christianity in the Roman Empire.

The growth and development of Christian life, thought and organization in the first four centuries of the Christian era. The course centers about the leaders of the early Church in its conflict with pagan ethical ideals and social customs, in the expression of the Christian message in Greek forms of thought, and in the rise of Roman and imperial ideas of government and discipline in the Church.

First Semester, Sophomore, Junior, or Senior Year, two hours.

SPANISH

ASSISTANT PROFESSOR FAIRFIELD

1-2. Elementary Spanish. *Year Course.*

1. First Semester.
2. Second Semester.

The course consists of the elements of grammar; the reading of easy texts; drill in pronunciation and composition.

Sophomore, Junior, or Senior Year, three hours.

ZOOLOGY

ASSISTANT PROFESSOR RISSER, MR. HAINES

All 3-hour courses in Zoology require six hours of laboratory work and an additional hour for lecture or quiz.

Course-combinations may be arranged in several ways for different lines of work:

a. For general work in Zoology: Biology 1 and 2, followed by Zoology 1a and 1b, will be sufficient to give the student a general knowledge of Zoology.

b. For those intending to teach Zoology in High Schools: Biology 1 and 2, followed by Zoology 1a, 1b, 4, 5, and 6, will furnish adequate preparation, and recommendation will be given to any student completing these courses.

c. For students intending to pursue the practice of Medicine: Biology 1 and 2, and Zoology 1a, 2, 3, 4, and 9 are recommended.

1a. Morphology of the Vertebrates.

A course in the progressive development of the vertebrates from the lower forms to their highest type, the mammalian, with the changes in organs and structures. The main facts of embryolgy in the groups studied and the causes influencing the modifications are discussed. Lectures and laboratory work with assigned readings and recorded drawings.

First Semester, three hours. Pre-requisites, Biology 1 and 2.

1b. Invertebrate Morphology.

A comparative study of the invertebrate animals, with respect to their structure, life history and activities. The group of Arthropoda will be emphasized, because of its economic importance.

First Semester, three hours. Pre-requisites, Biology 1 and 2. The course may be elected independently or in conjunction with 1a. Given in 1911-12.

2. Vertebrate Anatomy.

A study of the general anatomy of the mammalian body. The skeletal structure, musculature, digestive system, circulatory systems and the nervous organization are emphasized. This course should in sequence be taken with course 1a. For those students who expect to teach Zoology and Physiology, as well as for those expecting to study medicine, this course is well adapted.

Second Semester, 3 hours. Pre-requisites, Biology 1 and 2, Zoology 1a.

3. Histology and Methods.

The microscopical study of the animal tissues. The course concerns itself with the principal tissues of the vertebrate animals and the methods of preparing them for study, viz., fixation, preservation, sectioning, and staining. Laboratory work, lectures, and reference reading.

First Semester, 3 or 4 hours as arranged for. Pre-requisites, Biology 1 and 2, Zoology 1a and 2.

4. Embryology.

A course on the development of the vertebrate embryo. Segmentation processes of the amphibian egg (salamander or frog), followed by the study of the developmental stages of the various organs of the amphibian, the bird and the mammal. Lectures, laboratory work, reference readings and drawings of the stages studied.

Second Semester, 3 hours. This makes a year course taken with course 2. Pre-requisites, Biology 1 and 2, Zoology 1a and 3, or Botany 5 in special cases.

5. Physiology.

A course on the physiological activities of the human body. The physical and mechanical causes of circulation and respiration, the relations of muscle and nerve, the special senses and the alimentary functions are discussed. The relation of physiology to both public and private sanitation is emphasized. Recitations, reference work, and a certain amount of laboratory work are required. The course is adapted to the needs of those expecting to teach science in high schools.

First Semester, 3 hours. Pre-requisites, Biology 1 and 2, and for the best work, Zoology 1a and 2 are advised.

6. Teachers' Course.

Special work in Zoology, arranged primarily for those intending to teach Zoology. Methods of collecting and preserving material, preparation of illustrative material for class use, care of aquaria for living forms, the making of cultures and the proper amount and relation of text book and laboratory work are some of the topics discussed.

Second Semester, hours arranged by conference. Open only to students qualified by previous work in Zoology or Botany.

9. Neurology.

A laboratory course involving intimate study of the central nervous system from both the structural and the functional standpoint. The special methods employed in the histological study of the nervous system are made use of in the laboratory and outside readings are assigned.

First Semester, three hours. Pre-requisite, Zoology 3. Given in 1910-11, and in alternate years thereafter.

Studies Preparatory to Pursuit of Definite Vocations

The College aims to furnish a course of study which, while making provision for the varying needs of different students, shall lay a broad foundation of general culture as a basis for the pursuit of any calling in life. The specifications regarding the arrangement of the studies included in such a liberal course are stated on pages 34-36 of this catalogue.

Among the courses offered in accordance with this purpose of the College are a number that have value both as elements in a liberal education and as studies preparatory to specific callings and to subsequent professional study. In many cases the professional course may be materially shortened by including these studies in the College course. The following courses are suggested as of interest to those desiring to shape their elections towards some definite vocation. These courses are described in detail in the statements of the several departments of instruction, pages 37-95 of this catalogue. In all cases the general requirements, as stated on pages 32-36, will be maintained.

COMMERCE, CONSULAR AND CIVIL SERVICE

Economics: (21-22) Principles of Economics, (3) Finance, (5) Money and Banking, (6) Transportation, (8) Corporations, (9, 10) Sociology and Social Problems, (14) Financial History of the United States.

Political Science: (1, 2) Government, (3) International Law, (4) Municipal Government, (5) Diplomacy, (7) American Constitutional Law.

History: (1, 2, 5, 6) Europe, (21, 22) United States.
Modern Languages: French, German, Spanish.
Commercial Geography.

ENGINEERING

Mathematics: (1) Trigonometry, (2) College Algebra, (25) Analytic Geometry, (5, 6) Calculus, (7) Differential Equations, (11, 12) Mechanical Drawing, (13, 14) Descriptive Geometry, (19, 20) Surveying.
Physics: (1, 2) Descriptive and Laboratory Physics, (3) Electricity and Magnetism, (5) Electrical Measurements, (11, 12) Theoretical Mechanics, (13, 14) Applied Mechanics.
Chemistry: The general courses, 1 to 8, and (9) Physical Chemistry, (12) Applied Chemistry, (16) Sanitary Chemistry.
Geology: (1, 2) Physiography, (11, 12) General Geology.
Astronomy: (3, 4) General Astronomy, (5, 6) Celestial Mechanics, (10) Navigation and Engineering Astronomy.
Modern Languages: French, German, Spanish.

Students looking toward courses in Engineering will find that by a proper selection of studies they will be able to shorten their graduate engineering course by about two years. Advanced credit may be secured in most technical schools for the studies specified above.

FORESTRY

Botany: (1, 2, 3, 4) Plant Morphology, (5) Plant Anatomy, (6) Plant Physiology.
Biology (1, 2); Chemistry (1, 2); Physiography (Geology 1, 2); Astronomy (1).
Physics: (1, 2) Descriptive Physics, (3, 4) Applied Physics.
Mathematics: (1) Trigonometry, (2) College Algebra, (5, 6) Calculus, (19, 20) Surveying.
German (1, 2, 3); French (1, 2).
Economics (5, 6); Political Science (1, 2).

By selecting a Major in Botany and Minors in Modern Languages and Economics, the catalogue requirements, as outlined on pages 32 and 33, will be met.

JOURNALISM

Rhetoric: (1, 2) Freshman Course, (3) Advanced Composition, (4) Short Stories, (5) Argumentation, (10) Journalistic Writing.

Economics: (21-22) Principles of Economics, (6) Transportation, (9, 10) Sociology, Social Problems.

Political Science: (1, 2) Government, (3) International Law, (4) Municipal Government, (9) Commercial Law.

History: (5, 6) Modern Europe, (7, 8) English, (21, 22) U. S. Political.

Music: (7, 8) History.

English Literature.

Modern Languages: French, German, Spanish.

Ancient Languages: Latin, Greek.

LAW

Political Science: (1, 2) Government, (3) International Law, (4) Municipal Government, (5) Diplomacy, (6) Political Theory, (7) American Constitutional Law, (9) Commercial Law.

History: (1, 2) Mediæval Europe, (7, 8) England, (11, 12) English Constitutional, (21, 22) U. S. Political.

Economics: (21, 22) Principles of Economics, (3) Finance, (5) Money, (6) Transportation, (8) Corporations.

Public Speaking: (3) Public Address, (6) Debating, (7, 8) Extempore Speaking, Argumentation (Rhetoric 5).

Philosophy: (1) Logic.

Mathematics: (1) Trigonometry, (2) College Algebra.

English Literature, Ancient Languages, Modern Languages, Philosophy, Psychology.

MEDICINE

Biology (1, 2).

Zoology: (1a, 1b) Morphology, (2) Vertebrate Anatomy, (3) Histology, (4) Embryology, (5) Physiology, (9) Neurology.

Chemistry: (1, 2) General Chemistry, (3, 4) Qualitative Analysis, (5, 6) Quantitative Analysis, (7, 8) Organic Chemistry.

Physics (1, 2).
Psychology: (2) Elementary, (4) Experimental.
Modern Languages: French, German.

MUSIC

Music: (1, 2) Elementary Music, (3, 4) Harmony, (5, 6) Musical Form, (7, 8) History, (9, 10) Masterpieces.
Greek: (15, 16) Greek Literature in English.
Pedagogy: (1) Applied Psychology, (2) Methods, (4) History of Education.
Psychology: (2) Elementary.
Philosophy: (9) Aesthetics.
Physics: (9) Acoustics.
English Literature.
Modern Languages: German, French, Spanish.

TEACHING

A Suggested Plan for Making Elections

Freshman and Sophomore Years:

Two studies taught in secondary schools may be elected from one of the three College groups (p. 34). These may become a Major and a correlated study, which the student may expect to teach. From one of the other groups a study may be taken which may include twelve or more semester-hours before the end of the course. This group-minor will help to give a balanced training and a wider adaptation to school work.

Junior Year:
Psychology: (2) Elementary, (6) Genetic.
Pedagogy: (4) History of Education.
Major study: six hours.
Correlate study *or* group-minor: six hours.
Art (1, 2) *or* Music: (1, 2) Elementary, *or* (7, 8) History.

Senior Year:
Pedagogy: (1) Applied Psychology, (2) Methods.
Major *or* correlate study: six hours.
Group-minor: six hours.
Teachers' Course in Major or correlate study.

By omitting Psychology 6 or Pedagogy 1, more work in other studies is possible. Pedagogy 2 and the Teachers' Courses include observation-work in the schools of the city and practice teaching with the class under the instructor's criticism. Graduates of the College who have taken 12 hours in the Psychology, Pedagogy, and Teachers' Courses given above receive from the State Superintendent a license to teach for one year in the schools of Wisconsin, and if successful are then granted a state certificate. These licenses and certificates are usually honored in other states.

THEOLOGY

Biblical Literature: (11, 12) Old Testament Literature, (9, 10) The New Testament, (7, 8) Hebrew.
Religious History: (2) Comparative Religion, (3) Christianity in the Roman Empire.
Greek: (13) New Testament Greek.
Sociology: (Economics 9, 10, 11, 13).
History: (1, 2) Mediæval, (18) Reformation, (43) Mediæval Culture.
Music: (7, 8) History.
Psychology.
Rhetoric, Public Speaking, English Literature.
Philosophy (5, 6).
Pedagogy 6: Religious Education.

General Information

REGISTRATION AND ENTRANCE

On entering College, and at the beginning of each semester, every student is required to register at the hour and place stated in the Calendar. Students not registering at the specified time are required to pay a registration fee of one dollar.

After each vacation or recess, registration is counted as the first exercise. Failure to register on time is counted as five ordinary absences.

Students applying for admission to College from any preparatory school must present before registration a certificate of admission, signed by the principal. (See pp. 30-31.)

Advanced credit will be given by the College for work done in the secondary schools only upon examination, unless the school from which the record is presented has been inspected by the Faculty of the College, and its courses approved by them as entitled to such credit. (See p. 29.)

Graduates of normal schools are admitted with advanced credit, on the terms stated on pp. 29-30.

Students entering College from other institutions of collegiate grade, and desiring advanced standing, must present an honorable dismissal, together with full records, from the college or university in which they have studied.

ELECTION OF STUDIES

Students are required to take fifteen or sixteen hours of work in each semester of the College course. A larger number or hours may be elected upon recommendation of the adviser. A student may also be permitted to elect less than fifteen hours, for specific cause, by vote of the Faculty; but under no circumstances will a student be allowed to take less than twelve hours of work.

The words *Year Course,* appended to the title of a course in this catalogue, indicate that election of the course must be made for the entire year. In some cases, as stated, the student may drop the course at the end of the First Semester.

The election of studies for the First Semester by Freshmen and others entering College for the first time will take place on the Tuesday preceding the opening of the College in the fall. The hours will be from 9:00 A. M. to 4:00 P. M.

Except for new students, the regular election of studies for each semester will take place at the times appointed in the College Calendar.

For every change in elections after the above dates a fee is charged: if the change is made before the recitations of the new semester have begun, the fee is fifty cents; after the beginning of recitations it is one dollar.

Before presenting election cards to the Recorder, Freshmen and Sophomores must secure the signature of the class adviser, in approval of their elections. Similarly, the cards of Juniors and Seniors must be approved and signed by the head of the department in which the Major subject is taken. At the spring election in Sophomore year, for the first semester of Junior year, the student must signify his choice of a Major, and must secure the signature of the Major instructor upon his election card.

No student will be admitted to classes in any course until his class card, properly signed by the Recorder, has been presented to the instructor in that course.

SCHOLARSHIP AND CREDITS

The student's work at Beloit College is estimated in terms of hours and credits. An hour, in this connection, means class-work taken one hour each week for a semester. A credit is a measure of the quality of the work done.

A certain number of semester-hours of work must be completed each year in order to secure advancement to a higher class. Students will be classified as Freshmen until they have completed twenty-one semester-hours; as Sophomores until they have completed fifty-four hours; and as Juniors until they have completed eighty-four hours. One hundred and twenty semester-hours are required for graduation.

A certain number of credits must also be secured before a student can pass from a lower into a higher class. Eight credits are required during the Freshman year, ten credits during the Sophomore year, twelve credits during the Junior year, and at least ten credits during the Senior year. Forty-two credits are required for graduation. Failure to secure the required number of credits during any given year of the College course debars the student from passing into the next higher class except by faculty permission. Failure to secure the ten credits required during the Senior year or to secure the total of forty-two credits required during the course prohibits a student from graduation.

Credits are estimated as follows: a standing of AA secures one credit for each semester-hour completed; A, three-fourths of a credit; B, one-half a credit; C, one-fourth of a credit. A standing of D passes the student, but gives no credit; F indicates a failure with privilege of re-examination and FF, without such privelege. A+, B+, and C+ represent respectively seven-eighths, five-eights and three-eighths of a credit for each semester-hour. It will be seen that an average standing of C+ is necessary to procure for the student the 42 credits required for graduation, on the basis of 120 hours. For graduation honors, based on credits earned, see below, under Degrees.

EXAMINATIONS AND REPORTS

Final examinations in all courses are given at the end of each semester. Summary reports, stating the total number of hours and credits made by the student during the semester, are given out as soon as possible after the close of each semester. Except in the case of failures, no detailed statement of marks in the various courses will be given to students of the upper classes.

For the Freshman class, in addition to the regular semester examinations, mid-semester examinations are held. Detailed reports of the standing of Freshmen and Sophomores will be sent to their parents at the close of each semester, and also after the mid-semester Freshman examinations.

DEGREES

The Bachelor's degree is regularly granted on the completion of a four years' course of study, covering not less than 120 semester-hours of work, on which at least forty-two credits have been earned.

A degree *cum laude* is granted to students who obtain sixty-two credits; *magna cum laude,* to those who obtain ninety-six; and *summa cum laude,* to those who obtain one hundred and ten. These honors are granted for credits earned in a course covering from 120 to 128 semester-hours; if the student has taken more than 128 hours, his credits will be reduced to that basis.

The degree of Bachelor of Arts is conferred on students whose Major is in Group I or Group II (see p. 34, above); the degree of Bachelor of Science, on those whose Major is in Group III.

GRADUATION IN LESS THAN FOUR YEARS

GRADUATION IN THREE YEARS

A student who presents on entrance to College advanced credits equivalent to twelve semester-hours, may be allowed to take eighteen hours each semester, in order to obtain a degree in three years. Written notice of intention to complete the College course in three years must be given at the beginning of the second year. Permission to take the extra hours, and to graduate in three years, may be withdrawn at any time, if the student's work is not satisfactory.

GRADUATION IN THREE AND ONE-HALF YEARS

A student may complete the College course in three and one-half years by taking eighteen hours of work in each of five semesters. Permission to do this will be conditioned on his maintaining a satisfactory grade. Written notice of intention to complete the course in three and one-half years must be given at the beginning of the third year. On completion of the requisite number of hours the student may, on petition, obtain leave of absence until the following Commencement, when the degree will be conferred.

GRADUATE STUDY

Opportunity for advanced work in certain departments of the College is given to graduates of Beloit College and other approved institutions; this work may or may not lead to the degree of Master of Arts. It is intended that this degree shall be granted only for advanced liberal study; work of a professional nature will not be accepted for the degree.

Courses may be arranged for by application to the Committee on Graduate Study.

THE HONOR SYSTEM

All written examinations and tests are conducted under the Honor System. No officer of the College is present during an examination, but each student is required to write on his paper a pledge that he has neither given nor received any aid during the examination. The administration of the Honor System is in the hands of a student committee. By the constitution of the system it is the duty of every student to report to the commitee all evidence of dishonesty in examination that he knows of by observation. If after investigating such evidence the committee finds a student guilty of dishonesty, it reports the case to the Faculty through the Dean, with a recommendation for discipline.

The application of the Honor System has recently been extended to cover the observance of the rules of the College Library.

EXTENSION LECTURES

A majority of the members of the Faculty offer extension lectures upon subjects connected with their departmental work. The subjects selected are not of a technical character, but are of common interest, and have been prepared for high schools and general audiences. Principals of high schools or others who wish lectures are invited to make application to the Registrar of the College, who will send the list of subjects and lecturers, and will furnish any other information desired.

A small fee is charged for the lectures, in addition to the expenses of the lecturer.

WORSHIP

There is a united religious service each week-day, except Saturday, in the College Chapel. This building, in which all the general devotional exercises of the College and also the voluntary religious gatherings of the students are held, was largely the gift of the late Mrs. A. E. H. Doyon, of Madison, as a memorial to her mother, Mrs. J. S. Herrick.

On Sunday afternoon the students are required to attend worship regularly at the College Vesper Service in the Chapel. The attendance of the students is welcomed and their assistance is valued by the churches and Sunday Schools of the city; many have been useful workers in outlying Sunday Schools.

THE PORTER MISSIONARY LECTURES

A fund has been established in the College, providing for the delivery and publication of lectures upon missions. According to the terms of endowment, "it is desired that these lectures be delivered biennially, upon themes covering the wide range of missionary history or biography, or of the conquests to our larger knowledge of mankind by missionary travel or research, or of the moral triumphs of the Gospel in its appeals to men."

The first course of lectures under the endowment was given by the late Rev. Edward A. Lawrence, D. D., of Baltimore, in April, 1892; the second by Rev. Arthur H.

Smith, D. D., '67, of Pang Chuang, China, in March, 1894; the third by Professor William Douglas Mackenzie, D. D., formerly of Edinburgh, now President of Hartford Theological Seminary, in May, 1897; the fourth by Rev. James D. Eaton, D. D., '69, of Chihuahua, Mexico, in May, 1900; the fifth by Robert E. Speer, M. A., of New York, in October, 1901; the sixth by Rev. Charles Cuthbert Hall, D. D., LL. D., of New York, President of Union Theological Seminary, in May, 1904; the seventh by Rev. Lyman Abbott, D. D., LL. D., of New York, in January, 1906; the eighth by Robert E. Speer, M. A., of New York, in April, 1907; and the ninth by Rev. Arthur Judson Brown, D. D., of New York, in May, 1909.

The tenth course will be given in January, 1911, by Rev. Robert A. Hume, D. D., Ahmednagar, India, upon "An Interpretation of India's Religious History."

THE GEORGE GREINER SCHNEIDER LECTURESHIP

A fund has been provided by Mrs. Marie Greiner to found a lectureship in memory of George Greiner Schneider, a member of the class of 1905. The first three courses of lectures on this foundation were delivered by Rev. David Beaton, M. A., of Chicago. The subject of the first, in March, 1906, was "A Spiritual Interpretation of Life"; that of the second, in February, 1907, "The Scottish Spirit and Its Teachings"; that of the third, in February, 1908, "The West and Its Problems". The fourth course was given by Hamilton Holt, B. A., of New York, in March, 1910.

THE BELOIT COLLEGE LECTURES

The Faculty instituted during the year 1908-9 a course of public lectures, on topics connected with the work of the College. These lectures are popular in character, yet representative of the best scholarship of the day; they are intended as an extension of the work of the College in the community. The lectures of each year illustrate the work of a number of departments of instruction; the plan provides for the presentation in this way, during a series of years, of all phases of modern study. The price of the tickets is nominal, as it is the purpose of the course to reach as large an audience as possible.

MUSIC

Music is an important element in the religious, the intellectual, and the social life of the College. The music at the daily chapel service and at the Vesper service on Sunday is led by the College choir, supported by a large and excellent two-manual pipe-organ. The College Library contains a valuable collection of musical literature, to which important additions are made each year. In addition to the courses outlined on pages 79 and 80, mention should be made of facilities afforded students for the study of music through the chapel choir, the organizations for the practice of oratorio and orchestral music, and the glee clubs. For those sufficiently advanced, opportunity will be given for public performance in concerts and on other occasions where music is introduced. The Beloit College Musical Association sustains a large chorus for the practice of the higher forms of choral music; the chief work to be performed at its concert during the College year 1910-11 is Handel's "Messiah".

THE FINE ARTS

The College is fortunate in the possession of art collections of unusual richness and variety. They are housed in the Art Hall, under the supervision of Mrs. Joseph Emerson as Curator.

The Fisher Collection of Greek Casts is of great value, not only to students of Greek art and life, but for the general culture of the College and the community. It consists of one hundred and twelve casts of antique Greek sculpture, prepared and exhibited by the Greek government at the Columbian Exposition, and presented by Mr. Lucius G. Fisher, Jr., in memory of his honored father, a life-long trustee of the College. Carefully selected by eminent archæologists, and cast in moulds from which these are the first impressions, it furnishes original examples of the progress of Greek sculpture from its first rude but grand beginning to the nobility of the fine, Greek art of Pheidias, the Oriental grace of Praxiteles, and the colossal Roman strength of later days. It occupies the entire lower hall of the Art Gallery, and is a treasure not only unique, but of inestimable value for illustration, instruction, and inspiration. In addition to the Greek casts, there are 300 pieces of statuary and reliefs, ancient, mediæval, and modern, making a total of over 400 casts.

The oil paintings, water-colors, and pastels, from the brushes of eminent and worthy American and European artists, are over 100 in number, and there are 100 framed etchings, engravings, autotypes, and photographs. The additions during the year 1910 have been a fine copy of "A Jolly Man" by Franz Hals; an oil painting by Smith-Hald of "The First Rays of the Sun on Mt. Luffoden"; two vases of Duschek pottery from Miss Adaline Emerson; a painted water set illustrating the landing of Roger Williams; a Canton coffee pot and plate from Mrs. E. W. Bill; and fine examples of Norse pottery from the factories at East Buffalo, N. Y., and East Liverpool and Chelsea, Ohio.

There are new book-cases and brackets which accommodate additional busts and books; plaster busts of Milton, Whittier, Carlyle; a bronze of "A Greek Dice-Player", the gift of one who withholds her name; Japanese and Chinese paintings on silk; a painting on cobweb of Andreas Hofer by Fr. Unterberger; a water-color painting by Cecil C. Coons; oils of "Around the Evening Lamp", by Arvid Nyholm; a portrait of Frances E. Willard, by Miss B. Brower, and a portrait of Oliver Goldsmith by Sir Joshua Reynolds.

The Art library has grown by purchase and donation to 2,500 volumes, 200 of which have been bound during the past year. The new arrangement and classification makes it of increasing value in carrying on the work of the Art department.

The engravings and photographs, representing the art, scenery, and literature of all countries, number over 18,000, equalling the collections of the largest museums in our country and excelling most of them in number and value.

President James A. Blaisdell has donated, during the year, books, photographs and many fine engravings.

There are fine marbles, bronzes, etchings; a choice and valuable collection of Chinese Porcelains; and a large collection of the Pottery of the Cliff-Dwellers, presented by the Rev. S. D. Peet, of the first College class. Bric-a-brac and curios have been gathered, illustrating customs and manufactures from all parts of the world.

A fund of $500, the income of which is to be given annually for the best essay upon a topic related to the

Fine Arts, open to all College classes, has been secured from a lady who withholds her name. Its topics and conditions will be found on page 136.

During the eighteen years since this department was begun by the donation of Mrs. Joseph Emerson's collections, all of the departments of the Fine Arts have had a beginning, a foundation on which there can be built a worthy superstructure. The most pressing need is a suitable and safe building in which to place the collections and to permit of future growth. Increased funds for the carrying on of the work of the department are also greatly needed, and it is the earnest hope of the Curator that such funds and such a building may speedily be secured.

LITERARY INTERESTS

The Archæan Union, an organization of which every student is a member, has general oversight of all the literary interests of the College. These include debating, oratory, the publication of a weekly paper, and the maintenance of a reading-room. The Union is supported by a small fee, included among the incidental expenses of each student, and is governed by the student body, with the aid of a Board of Control, in which students form a majority of two-thirds.

The College holds annually three intercollegiate debates: a Freshman debate with Carleton College; a Sophomore debate with Albion College; and a debate open to Juniors and Seniors, with Knox College. In addition to these, there is an annual debate for a silver cup, known as the Archæan Cup Debate, between the two literary societies named below.

There is held each year a competitive contest in oratory, known as the Home Contest. The two successful competitors in this contest represent the College in the State Oratorical Contest.

The College weekly paper, The Round Table, is now in its fifty-seventh year; it offers an excellent opportunity for training in journalistic work, which is open to all students, as the editorial positions are filled by competition.

The reading room of the Archæan Union is in the College Library. It is liberally supplied with newspapers and literary periodicals of all classes.

In addition to the Archæan Union there are in the College two voluntary literary societies, the Delian and the Cliosophic, which hold weekly meetings for practice in debate and other literary exercises. Rooms are set apart for their use in Middle College.

The English Club is an organization of students for the study of topics connected with English literature. It holds ten meetings each year, in addition to public meetings, at which lectures on literary subjects are delivered before the College.

The Shakespeare Society devotes itself to the study and representation of the plays of Shakespeare. Its membership is open, on a competitive basis, to all women students; three-fourths of the members are chosen for excellence in acting, as shown in a contest held early in the year; the other fourth are appointed for excellence in the work of the course in Shakespeare. The Society gives an out-of-door performance of one of Shakespeare's plays in the spring of each year; the play presented in 1910 was "Twelfth Night".

EXERCISE AND HEALTH

The Men's Gymnasium, which is one of the most beautiful buildings on the campus, was erected in 1904-5. It is built of vitrified brick, and is thoroughly adequate in its proportions and appointments for systematic physical training. The plans for the building were matured after a thorough study of some of the best gymnasium buildings in the country.

In the basement are a base-ball cage, hand-ball courts, bowling alleys and rooms for fencing and boxing. On the first floor is the main locker-room, fitted with 200 individual lockers with the most improved devices. This room is connected with the main bath-room, with shower and tub-baths and lavatory. Opening out of this room is a special dressing-room for visiting athletic teams. On the first floor are also the reception and examining rooms and the director's room. The second story is the main gymnasium floor, 105 by 51 feet; this is completely fitted with all modern forms of apparatus for heavy gymnastics and special work. There has recently been installed a large amount of new apparatus, including a twine batting cage. On the third floor is a running track and visitors' gallery.

A physical examination is required of all men upon entering College. All men in the Freshman and Sophomore classes are required to take three hours a week of physical training. This is carried on under the supervision of the Director, and must be completed before the beginning of the Junior year.

Students are allowed to select forms of exercise other than regular gymnastic work, provided that upon examination they are found to be physically adapted for the work which they desire. Such substitute forms of exercise may consist in work with the various athletic teams, or in more special forms of exercise, such as boxing, fencing, and wrestling. Only one hour of credit is allowed for the work done in any given day.

Regular classes are held in the Gymnasium from 3:30 to 4:30 daily; also from 4:30 to 5:30 on Mondays, Wednesdays and Fridays. Special classes in boxing and wrestling are held on Mondays, Wednesdays, and Fridays, from 5:30 to 6:00 P. M.

The Women's Gymnasium occupies a large, well-ventilated room on the third floor of Emerson Hall, and is thoroughly equipped with modern apparatus. On the same floor, in connection with the Gymnasium, are bath and dressing-rooms. Three hours per week of gymnasium-work are required of all women students below the Senior class. Careful physical examinations are made at the beginning of each year, and a prescription intended to meet the individual needs of the student is made out. Special attention is given to poise and to the use of the Sargent developing apparatus. Swedish gymnastics and fancy drills form part of the work during the year, and an interest in basket-ball and out-of-door exercise is encouraged. Application for information regarding gymnasium suits and physician's certificates should be made to the Director of the Women's Gymnasium.

The athletic organizations of the College are managed by the Athletic Board of Control, a board made up from the alumni, Faculty, and students, securing to all athletic matters the highest efficiency combined with the greatest economy.

All field and track athletics are under the immediate personal charge of the Director of the Gymnasium and Athletics.

An athletic fee of five dollars is included among the incidental expenses collected from each student. In consideration of this, there is issued to each student a season ticket, admitting him free of charge to all home athletic contests held by the College.

The health of the students has always been excellent. The College buildings are located on the high gravel bluffs east of Rock River, and the dormitories and other buildings are well-drained and dry all the year through. The city of Beloit has an enviable record for general healthfulness,—a record made possible by its fine water supply, excellent sewer-system, the porous soil beneath, and the general elevation above the river water level.

CARNEGIE LIBRARY

The beautiful new library given to the College in 1904 by Mr. Andrew Carnegie occupies a site on the east side of the campus, north of Memorial Hall. It is of cut Bedford stone and is practically fireproof, the stack-room being wholly so. The building is of a Renaissance style of architecture, 95 by 75 feet, with two stories and basement. On the main floor is the delivery-room, adjoining which are the metal stacks, accessible to the students for reference. On either side are reference and periodical rooms, with smaller side-rooms for consultation and administrative purposes. In the basement are rooms for receiving and distributing books, for files of newspapers and periodicals, and for storage.

The building is supplied with steam heat and electric lights, and the equipment throughout is thoroughly modern in every detail.

The library is open, in charge of attendants, from 7:40 to 11:40 A. M., and from 1 to 6, and from 7 to 9 P. M., each week-day.

Particular care is given to making the library a place of work and research; free access is given to the shelves of the entire library. Reserve shelves are provided, on which are books for reference use in different departments, temporarily withdrawn from circulation; files of bound periodicals referred to in Poole's Index, which aggregate several thousand volumes and which are in constant use, as well as standard works of reference, with which the library is well supplied, are also reserved.

Reading tables and racks are supplied with current numbers of the leading periodicals and reviews, including those supplied by the Archæan Union; these now number 217.

The library contains about 44,000 volumes and about 22,000 pamphlets, arranged and catalogued according to the Dewey decimal classification by card index.

The resources of the Beloit Public Library, which contains about 12,000 valumes, form a valuable supplement to those of the College Library, especially in the field of fiction and other departments of popular literature. They are freely accessible to College students, who make large use of them.

PEARSONS HALL OF SCIENCE

The College is indebted to the generosity of Dr. D. K. Pearsons for its noble building for the physical sciences. The edifice is two stories in height, with roof-story and high basement, making substantially four stories. It has an east frontage of 136 feet, with north and south wings extending back 115 feet, and forming the sides of an open court. The inside walls are finished in brick, and slow-burning construction has been used throughout, thus greatly reducing the danger from fire. All the rooms are planned with reference to convenience, ventilation and light. Gas and water are carried wherever they are needed. On the first floor is an auditorium for lectures and meetings of various sorts, with seats for three hundred persons.

The department of Physics occupies the first floor and the basement on the south side. A lecture-room, a large general laboratory, an apparatus room, a research laboratory, and an office are located on the first floor. A large electrical and magnetic laboratory, a dynamo room and shop, and a photometric and photographic dark-room are situated in the basement. The equipment of the department has recently been materially increased by the addition of a considerable amount of new apparatus designed for general laboratory purposes, and also by a complete set of tools and machinery for the laboratory shop. The apparatus room is well stocked with modern apparatus for lecture and general laboratory use, including electrical and optical instruments of precision.

The electrical and magnetic laboratory is equipped with a number of alternating- and direct-current motors and generators, together with transformers and other accessory apparatus. The electrical equipment also includes suitable storage battery capacity.

The laboratory shop is equipped with a modern screw-cutting lathe, tools for both metal and wood working, wood and iron benches, a power air-compressor, and other necessary appliances. A fully equipped long-distance wireless telegraph station has been recently established at the laboratory, thus affording special facilities for illustrating modern electrical progress.

On the first floor a room has been fitted up for Mechanical Drawing and Surveying. It has drawing tables and boards and a filing cabinet, and is lighted with drop incandescent lights. The Surveying outfit contains three engineer's transits, an engineer's compass, a Burt solar compass, a Saegmiller solar compass, Y-level, plane-table, planimeter, tapes, tape-testing apparatus, stadia-rods, leveling-rods, sextant and horizon, and various minor instruments for field work and plotting.

The department of Chemistry occupies the first floor and the basement in the north wing. In the basement are a large laboratory for qualitative analysis and general laboratory work, store-rooms, and separate rooms for photographic chemistry and sulphuretted hydrogen. On the first floor are the lecture-room, balance-room, quantitative laboratory, organic research laboratory, and store room. The laboratories are fitted with tables and appliances of the most approved construction, and care has been taken to insure ventilation. Each laboratory has several draft-chambers, with special flues leading therefrom. The equipment includes lecture-apparatus for illustrating special topics; the laboratories are stocked with the best refined chemicals, balances, and apparatus for analytical and research work.

The department of Geology occupies the second floor and the roof story on the south. The rooms are large; they include a lecture-room, provided with the requisite manuals and charts; a laboratory for elementary work, supplied with models, topographic and relief maps, relief-globe, photographs, and a series of specimens illustrating structural and phenomenal geology; a library, containing important geological publications and affording opportunity for the study of special topics; a petrographical laboratory, provided with microscopes; a goniometer, heavy liquids, special-gravity balances, a large collection of typical rocks with their sections, and a set of the Voigt and Hochgesang thin sections of minerals. The work-shops on the third floor contain a cutting-machine and other facilities for the preparation of thin rock-sections.

The Psychological laboratory is located on the third floor, south side.

The departments of Botany and Zoology occupy the second and third floors of the north wing and central portion of Pearsons Hall. The laboratory for general Biology and Zoology is admirably lighted by east and west windows and skylight overhead. The room is adequately equipped to accommodate fifty students at one time; it has a large aquarium table with running water, arranged for keeping living material under normal conditions. In the north wing on the second floor are situated the laboratories for Histology, Embryology, and Plant Morphology. The Plant Morphology laboratory is equipped to accommodate thirty students; the Histology and Embryology laboratory has provision for twenty. The laboratories are equipped with forty-five compound microscopes for advanced work, and dissecting microscopes for each student. For work in Histology the laboratory is equipped with microtomes as follows: a Bausch and

Lomb Minot rotary microtome, a Zimmerman rotary microtome, two Thoma model microtomes, and hand microtomes. The lecture-room is equipped with a Bausch and Lomb Projection Lantern for both lantern slides and microscopic slide projection; a set of Dodel-Port charts for plant morphology, and a number of the Leuckart charts for animal morphology. For work in Embryology and Anatomy, there are two complete sets of models for the embryology of the frog and chick, and a set of skeletons illustrative of the vertebrate animals. Illustrative material on the different groups of animals is also provided for the work in Zoology.

SMITH OBSERVATORY

Smith Observatory, the gift of the late Mrs. J. S. Herrick, is well equipped for practical Astronomical work. It is provided with the following apparatus: Clark equatorial telescope of 9.5 inches aperture, mounted by Warner and Swasey, provided with accessories for micrometrical and solar work; Lyman transit telescope of 2.5 inches aperture, rebuilt by William Gaertner & Co. in 1900; Thomas mean-time clock; Howard sidereal clock; Negus chronometer; Fauth & Co. chronograph, electrically connected with sidereal clock and transit telescope; sextant; levels, etc.

The Observatory also contains a well-selected library containing files of most of the standard American and foreign astronomical journals, as well as the usual standard texts and references.

The department of Astronomy is also supplied with a complete outfit for projection work. It has some four hundred lantern slides, among which are most of the celebrated views of celestial objects taken in the larger observatories of America and Europe.

The Observatory will be open to visitors by previous arrangement with the director.

LOGAN MUSEUM

The Museum of Archæology, founded by F. G. Logan, Esq., of Chicago, is located on the first floor of Memorial Hall, which has been specially fitted up for its reception. The Logan collection is quite complete and is the best of its kind in Wisconsin; it is especially adapted for class-room work.

Constant accessions are being made to the Museum, from the income of a large fund provided for the purpose by the donor of the collection. Important additions have been recently secured from the Winnebago Indians of Wisconsin and the Iroquois of New York. Every effort is made to obtain materials of local origin, and to make the collection the most complete of its kind in Wisconsin archæology.

Information concerning the Museum and its work may be obtained from the curator, who invites correspondence from those interested in Archæology.

The Museum is open to the public daily from 3:30 to 5:30 P .M., and from 7 to 9 P. M.; on Sundays from 2 to 4 P. M. Attendants are in charge to show the collection to visitors during these hours; the public is invited to visit the Museum and to study the exhibits.

THE ADMISSION OF WOMEN TO BELOIT COLLEGE

By action of the Board of Trustees, the number of young women who will be admitted to the College each year is limited to the number which can be accommodated in the women's dormitories. The Trustees and the Faculty believe that the interests of the College and of the young women in attendance are best conserved when the young women are in College dormitories under the immediate supervision of a competent dean of women. It is impossible to maintain this supervision when women students are allowed to room in private houses, and the authorities of the College have therefore decided upon the policy of restricting the number of women in attendance to those who can be accommodated in the women's dormitories. This restriction does not apply to those who reside with parents or relatives in the city of Beloit.

The regulation will be strictly adhered to, and no deviation from it will be allowed unless exceptional circumstances seem to warrant the Faculty in suspending the rule in individual cases. Applications for rooms in the College dormitories may be made in advance, and the applicants will be granted admission and accommodations in the order of their applications.

The women's dormitories accommodate about eighty-five students. This enables the College under the new regulation to admit about thirty young women each year into the Freshman class. The names of applicants who do not secure admission in any given year will be placed on the "Waiting List", if desired, and will be given accommodations the following year. This desire, however, must be distinctly communicated to the Registrar, and a deposit of five dollars made with the College Treasurer to insure the applicant a place on the "Waiting List". Remittances should be made payable to "The Treasurer of Beloit College" and sent to the Registrar when the application is made. This Registration Fee will be refunded if notice is given *before September first* that accommodations applied for are not desired. A special circular giving details as to rooms and board in the dormitories may be had upon application to the Registrar of the College.

The charges for women in the dormitories are stated below (p. 128).

DORMITORIES

Men

CHAPIN HALL

Chapin Hall, the gift of Dr. D. K. Pearsons and named by him in honor of President Chapin, has been in use since September, 1891, and accommodates about fifty-five young men. It has hard-wood floors, furnished reception room, parlor and bath-rooms. The building is heated by steam and electric-lighted throughout. Rooms are furnished with bedstead, spring bed, hair mattress, pillows, bureau with mirror, study table, chairs, bookshelves and window shades. The occupant will furnish bedding, towels, rugs, and such conveniences and decorations as may be desired. (Beds are 2 ft. 10 in. by 6 ft. 4 in.; windows, 2 ft. 10. in. by 5 ft. 10 in. Rooms measure approximately 9 ft. by 16 ft.)

The Hall is under the charge of Mr. Edward H. Light, the General Secretary of the College. An association composed of all the men of the Hall, both Faculty and students, seeks by social gatherings and athletic activities to promote a spirit of helpful comradeship and to increase the significance of Chapin Hall in the life of the College.

The dining-room is managed with a view to making it of the greatest use and convenience to the entire College community, serving as a social centre for the men, and contributing as largely as possible to the College life.

RENTALS

Rent for rooms in Chapin Hall is $54.00 per occupant for the year, payable in advance, one-half ($27.00) at the beginning of each semester. This rental includes both heat and light. In choice of rooms preference is given to previous occupants of the building in order of application, except that an occupant of any room may retain the room if he so desires, unless he is excluded for cause. After the close of the College year all applications, whether from previous occupants or others, will take their turn as received. All reservations, to be valid, must be accompanied by a payment of $5.00. This amount will be applied upon the rental at the opening of the semester. Notice of withdrawal of reservation must be given to the Registrar before September 1st; otherwise the fee is forfeited, if the room is not taken by the person making the reservation.

Correspondence as to accommodations should be addressed as early as possible to the Registrar, Beloit College, Beloit, Wisconsin.

Women

EMERSON HALL

The latest building given by Dr. Pearsons to the College is a beautiful dormitory for women, named by him Emerson Hall, in honor of Professor Joseph Emerson. The Hall was planned after a careful study of similar buildings elsewhere, and is unsurpassed in comfort, taste, and convenience. There are accommodations for about forty-five women.

The rooms are furnished with study tables, chairs, bookcases, college cots, hair mattresses and pillows, and bureaus with mirrors. Linen, bedding, rugs, and such other conveniences and decorations as may be desired are furnished by the occupants. (Rooms average 9 ft. by 14 ft.; windows, 2½ by 5 ft.; cots are 6½ by 3 ft.)

The building is heated with hot water and lighted throughout with electricity, which all students use. The Dean of Women makes her home in the building.

JUNIOR HOUSE

Junior House furnishes accommodations for about twenty young women of the Junior Class, for whose use the building has been set apart. This opportunity for an independent class life is of great value to the successive classes.

The building is heated with hot water and electric-lighted. The Director of the Women's Gymnasium has her home in the house.

STOWELL COTTAGE

Stowell Cottage, the gift of Mrs. Charles B. Stowell, of Hudson, Mich., has been completely remodelled and its accommodations increased. The rooms have been newly furnished, and a hot-water heating plant has been installed; like all the other dormitories, the Cottage is lighted by electricity.

The building furnishes excellent accommodation for twenty young women of the Freshman Class; it is under the supervision of a competent chaperone.

WOMEN'S STUDENT GOVERNMENT ASSOCIATION

The life of the students in the women's dormitories, with all details of its discipline, is controlled by themselves, under the supervision of the Dean of Women, through the Women's Student Government Association.

CHARGES

The charge for the entire College year for women occupying dormitories is $325. This charge covers tuition, all fees (except the Science Fees and Graduation Fee, as noted below), board and room, including light and heat; one-half of this charge is payable upon entrance in the fall, and the balance at the opening of the Second Semester. All payments are to be made at the Treasurer's office, both the fixed charges and the extra Fees, the latter varying in amount according to the courses elected. (See under head of Expenses, below.)

Rooms in the Women's Dormitories are assigned early in June, students already in attendance having preference. After that time rooms will be assigned in order of application, by the Registrar, to whom all correspondence in regard to rooms should be addressed. A deposit of $5.00 must be made when rooms are reserved. This amount will apply toward payment of bills in the fall, or will be returned if the Registrar is notified *before September first* that the applicant desires to cancel her reservation.

EXPENSES

Regular College Dues—Uniform for all except those occupying the Women's Dormitories, as stated above.

Tuition, per semester	$25.00
Incidental Fee, per semester (In lieu of all fees heretofore charged, except the Science Fees and Graduation Fee, as noted below.)	12.50
Athletic Fee, per semester (This fee, paid by all students, gives admission to all home athletic events held under the management of the Beloit College Athletic Association during the College year.)	2.50
Total, per semester	$40.00

Science Laboratory Fees, charged to cover the cost of materials used, are in addition to above Regular Dues, and vary according to the courses elected, as follows:

Chemistry, per semester	$ 5.00
Physics, per semester	4.00
Biology, per semester	3.50
Botany, per semester	5.00
Geology, per semester	1.50
Zoology, per semester	5.00
Astronomy, per semester	1.50
Surveying, per semester	1.50
Mechanical Drawing, per semester	1.50

Graduation Fee, payable by all Seniors in second semester bill	9.00

The above dues are to be paid by *Freshmen* upon *Registration Day* in order to avoid confusion, and for the convenience of all concerned. Members of the other classes must see that their bills are paid or provided for within one week from the opening day of each semester. *Additional charge* will accrue if bills are allowed to run unprovided for beyond that time.

Absence for imperative reasons and for a period of more that one-third of a semester will be considered as the only sufficient ground for refunding a portion of bills already paid; this rebate will be made according to certain rules made by the Board of Trustees, upon an order signed by the Dean.

STUDENT EMPLOYMENT BUREAU

Beloit College maintains an Employment Bureau to aid students who desire work. The bureau is under the direct supervision of a Faculty committee and is managed by a Secretary employed by the College. The management of the bureau is upon a thorough business basis, and it aims to keep in close touch with the leading manufacturing and other business firms of the city which give employment to students. A careful canvass of the city for employment is made at the opening of the year, and at such intervals during the year as seem advisable. Students who desire employment may register with the Secretary of the bureau, without expense; every effort is made to secure the employment which is best adapted to individual needs.

Beloit is a manufacturing city of 15,000 inhabitants, and its citizens are interested in aiding students who desire employment. For the past two years about 35 per cent of the students at Beloit have secured employment which has enabled them to pay a part or the whole of their expenses. A canvass of the city is made early in the summer, in order that definite information regarding this matter may be given to entering students during the summer months. This information, which is available after the first of July, will be gladly furnished to prospective students on application to the College Registrar.

SCHOLARSHIPS

The College has at its disposal a number of funds established for the aid of those who are unable to pursue a college course without assistance. These include:—

The Education Fund, dating from the early days of the College, and the Emerson Fund, bequeathed by Rev. Joseph Emerson, of Andover, Mass., for the assistance of students preparing for the ministry.

The Dodge Fund of $9,000, bequeathed by Mr. Rufus Dodge, of Beaver Dam, for aiding young women in their higher education.

The Smith Fund of $7,000, founded by Mr. Elisha D. Smith, of Menasha; the Chandler Fund of $1,000, bequeathed by Hon. W. H. Chandler, of Burke; and the McConnell Fund of $20,844.92, bequeathed by Mr. Charles D. McConnell, '98, of Richmond, Ill. These funds are not restricted, but can be drawn upon for the tuition of any student who is absolutely in need of such assistance in going through College.

Scholarships are granted for one semester; they may be renewed upon certain conditions. Application must be made on blanks which may be secured from the College Treasurer; in order to secure attention, they must be in the hands of the Scholarship Committee of the Faculty by June 1st for the first semester, and by January 15th for the second semester of each year. Entering Freshmen must send their applications to the Registrar before the opening of College.

THE BACON FELLOWSHIPS

Edward P. Bacon, Esq., of Milwaukee, has intrusted to the College the sum of $35,000, the income of which is divided into seven fellowships: four in the College, and three for graduates pursuing a course of theological study. One young man from each Freshman class is appointed to receive the benefit of a Bacon Fellowship, the selection being made among those who are specially dependent on their own exertions in securing an education, and are maintaining an excellent record in scholarship. At the close of the Senior year one is similarly chosen to receive a fellowship for the theological course.

THE UNIVERSITY FELLOWSHIP

The University of Wisconsin has invited Beloit College to appoint annually one of its graduates to a Fellowship in the University. This Fellowship, amounting to $225.00 annually, is for graduate study; but the incumbent is required to devote a portion of his time to assistance in the work of some department with which he is familiar.

PRIZES

The Lewis Prize

The Lewis Prize was founded by Governor James T. Lewis, and is offered for excellence in special work in German.

The Declamation Prizes

The class of 1901 has given the sum of $1,000, the income from which is used annually for two prizes offered to the Freshman Class for excellence in Declamation. The prizes are in memory of two members of the class of 1901, and are known as the Roger D. Orvis and the Mabel Rowntree Prizes. Four young men and four young women selected from the Freshman class complete for these prizes at an exercise held during Commencement week.

In 1910 the Orvis Prize was awarded to William R. Donovan of the class of 1913.

The Emerson Prize

The Emerson Prize of $50.00 has been awarded at the end of the Sophomore year for special excellence in the Greek of the first two years in College, and extra work in the department of Greek; it is not offered in the current year.

The Rice Prize

The Rice Prize of $30.00 is offered to the Junior class for excellence and improvement in extemporaneous speaking. An elective course (Public Speaking 7-8) is offered in this subject, and the prize is awarded at a contest during Commencement week among six speakers chosen for the excellence of their record during the year.

Awarded in 1910 to Lew R. Saretsky, of the class of 1911.

The Missionary Prize.

A prize of $20.00 has been established by a graduate of the College, a foreign missionary; it is offered in alternate years for the best essay on some subject connected with missions, and for the highest excellence in an examination upon Greek or Latin not read in the regular College course.

In 1910-11 the prize will be awarded for the highest excellence in an examination in special work in Greek.

Awarded in 1910 to Harley W. Mitchell, of the class of 1911.

The Logan Prizes

The F. G. Logan & Co. Prize, for the year 1909-10, will be divided into two parts. $25.00 is offered for the best archæological collection presented to the Logan Museum. In order to compete for this prize the collection must be delivered to the Curator of the Museum on or before June 1st.

A prize of $25.00 will also be given for the best essay on Mound Groups about Beloit, to be accompanied by a map of the groups described. This essay must be handed in on June 1st.

The Hay Prize

The Hay Prize in American Citizenship was founded in memory of Henry Hay of the class of 1894. This prize of $35.00 is offered to the members of the Senior class for the best essay on a subject pertaining to American Citizenship. The essays are to be from 3,000 to 5,000 words in length, and are to be handed in June 1st.

The subjects for the current year are:

The Efficacy of Industrial Education as a Solution of the Negro Problem.

The Significance of the Legislative Recognition and Regulation of Party Machinery.

A Central Bank as a Factor in Commercial Crises.

Is the Maintenance of the Closed Shop necessary to secure the Advantages of Collective Bargaining in regard to Wage-Contracts?

Awarded in 1910 to Walter W. Smith, of the class of 1910.

The Fine Arts Prize

A prize of $25.00 is offered for the best essay on a subject connected with the Fine Arts. The essays are to be from 3,000 to 5,000 words in length, and are to be handed in May 1st.

The subjects for the year 1910-11 are as follows:

American Landscape Painting.

Greek Vase Painting in the Fifth Century B. C.

The Historic City of Chester, England; its Environs and Cathedral.

Awarded in 1910 to Jessie May Houston, of the class of 1910.

The Horace White Prize

A prize of $50.00 is offered by Horace White, LL. D., '53, for special excellence in Latin during the Sophomore Year.

Divided in 1910 between Lucy Emeline Church of the class of 1910, and Lloyd V. Ballard of the class of 1912.

The Jackson J. Bushnell Mathematical Prize

A prize of $50.00 has been founded by S. Morgan Bushnell, '88, in memory of his father, Professor Jackson J. Bushnell. It is awarded annually for excellence in the mathematical work of the Freshman and Sophomore years,

Divided in 1910 between Harry Edward Goodell and William Richard Nethercut of the class of 1912.

Christian Citizenship Prize

By the will of Miss Agnes J. McMollen, of Oregon, Ill., One Thousand Dollars has been bequeathed to the College, to be known as the "Elizabeth McMollen Memorial Fund", in memory of the sister of the testator. The income from this fund will be awarded annually as a prize to the student presenting the best thesis on some phase of Christian Citizenship. The first award of the prize will be in 1910-11.

The Middlebrook Prizes

To stimulate interest in Public Speaking six prizes are offered by Mr. George Middlebrook, of New York City, aggregating $100.00 in amount; viz., a first, second, and third prize in Oratory of $25.00, $15.00 and $10.00 respectively, and three prizes of like amounts in Debating.

The Oratory prizes for the current year have been awarded as follows:

The first prize to Lew R. Saretsky of the class of 1911.

The second prize to Harold Hastings Kilbourn of the class of 1911.

The third prize to Andrew Lathrop Steele of the class of 1912.

The Debating prize will be awarded at the close of the year.

FORM OF BEQUEST TO BELOIT COLLEGE

I give, bequeath, and devise to "The Board of Trustees of Beloit College," a Wisconsin corporation, of Beloit, Rock County, Wisconsin, ... dollars ($), the same to be payable to the treasurer of such corporation within one (1) year after my decease.

Degrees Conferred at Commencement
1910

BACHELOR OF ARTS

Summa cum Laude

Lucy Emeline Church

Magna cum Laude

Jessie Mayverne Austin
Marion Louise Messer

Cum Laude

Maude Genevieve Backenstoe
Marvin Rudolph Brandt
Sidney Tenison Collins
George Russell Corlis
Elmer Thomas Ebbott
Elsa Haeger
Jessie May Houston
Mary Pierpont Hubbard
Gertrude Millicent Hulce
George Frank Knipprath
Allen Rubin LeRoy
Elizabeth Lisherness
Hazel Eva McIntosh
George Lyman Magee
Lloyd Leslie Maurer
Mary Anderson Nichols
Mary Cecile Owens
Hallie Pettibone
Gertrude Maria Reid
Brainard Alexander Ryburn
Marie Elizabeth Smith
Alta Mae VanDyke

Charles Franklin Collier
Hazel Irene Croft
Charles Raemond Davis
Ezra LaVerne Davis
Mills Dunham Dewey
Elma Elizabeth Fraser
John Harry Gaines
Margaret Helen Goodwin
Ruth Pauline Hayward
William Thomas Mawhinney
Roy Nathan Meadows
Oran Guernsey Orcutt
Manlius Jay Post
Marinda Betsy Smith
Walter Wallace Smith
Lee Daniel Wackman
John Dunne Wickhem

BACHELOR OF SCIENCE

Magna cum Laude

Robert Irvine Riggs

Cum Laude

Wayne Osman Axtell
Paul Wilson Buotwell
Mary Dunwiddie
Byrdie Iva Eustis
Leonard Hudson Fredericks
Mabel Clare Huschka
Florence Harriet Moseley
Howard Edward Pulling
Jessie Ellen Rowntree
Leslie Dennis Smith

Charles Melville Bacon
Julian Faville DuBois
Elizabeth Marie Ohly
Robert Porter Richardson

Special Honors for Scholarship in Departments were awarded as follows:

Jessie Mayverne Austin	English
Lucy Emeline Church	Latin
Leonard Hudson Fredericks	Chemistry
Allen Rubin LeRoy	Economics
Marion Louise Messer	German
Robert Irvine Riggs	Mathematics

The Student Council

John Merwin Beck
Frederick Corning Grabner
Hilmar Koefod
Paul Emanuel Nilson
Holman Dean Pettibone
Herbert Franklin Williams

Lloyd Vernor Ballard
Luther Roy Frame
William Richard Nethercutt, Jr.
James Manuel Wolfe

Arthur Farquhar Collins
James Allen Miller

Leroy Earle Post
William Pearce Williams

The Students

In the following directory, C. H. stands for Chapin Hall, E. H. for Emerson Hall, J. H. for Junior House, J. S. C. for Julia Salmon Cottage, S. C. for Stowell Cottage.

Senior Class

Allen, Edwin Howe	Beloit	1020 Park Ave.
Bailey, Frances Willard	Geneva, Ill.	E. H.
Barlass, Helen Forrester	Janesville	E. H.
Beck, John Merwin	Orfordville	424 Prospect St.
Candy, John Franklin	Dakota, Ill.	Hillcrest
Cobb, Milo Ranney	Elkhorn	740 Broad St.
Davenport, Jay Furber	Freeport, Ill.	C. H.
Davis, Mildred	Winnetka, Ill.	E. H.
Dudley, Sherman Leete	West Salem	745 Milwaukee Rd.
Essington, Verna Mae	Streator, Ill.	E. H.
Fenska, Richard Robert	Rhinelander	C. H.
Gehrand, Clarence Egbert	Lyons	Hillcrest
Grabner, Frederick Corning	Warren, Ill.	745 Milwaukee Rd.
Greenfield, Ruth Clarissa	Chicago, Ill.	E. H.
Helm, Olive Marjorie	Beloit	911 Bushnell St.
Holbrook, Helen Ruth	Park Ridge, Ill.	E. H.
Hoppe, Julia	Baraboo	E. H.
Howe, Theda Frances	Lancaster	E. H.
Howell, Dorsey Gould	Albion, Neb.	1248 Chapin St.

Jeffris, Kenneth Baldwin	Janesville	1125 Chapin St.
Johnson, Edna May	Beloit	1027 Prairie Ave.
Johnson, Walter Adolph	Glenwood, Minn.	1125 Chapin St.
Kilbourn, Harold Hastings	Beloit	633 College St.
Knott, James Claudius	Elgin, Ill.	1248 Chapin St.
Koefod, Hilmar	Glenwood, Minn.	1125 Chapin St.
Lentzner, Norman George	Menomonee Falls	Montgomerie Pk.
McInnes, Robert James	Belvidere, Ill.	1248 Chapin St.
McMurry, Donald Le Crone	De Kalb, Ill.	1248 Chapin St.
Mallery, Jean Pauline	Pierre, So. Dak.	E. H.
Meyer, Martha Jeannette	Lancaster	E. H.
Meyers, Marion Walden	Beloit	610 Broad St.
Miles, Nathaniel	Mt. Carroll, Ill.	1248 Chapin St.
Millett, Edith Lydia	Beloit	348 Euclid Ave.
Mitchell, Harley Warren	La Grange, Ill.	1248 Chapin St.
Mosher, William James	Beloit	727 Milwaukee Rd.
Murdock, Hazel Dunwiddie	Beloit	551 E. Grand Ave.
Nilson, Paul Emanuel	Rockford, Ill.	C. H.
Pettibone. Cornelia Mary	Burlington	E. H.
Pettibone, Holman Dean	Albion, Neb.	1248 Chapin St.
Qualman, Ruth May	Beloit	399 Highland Ave.
Rhyme, Helen Alice	Portage	E. H.
Rice, Lucie Mabel	Hebron, Ind.	E. H.
Rosenberg, Alice Fayette	Beloit	737 Park Ave.
Rosenberry, Imogene Boardman	Arbor Vitae	E. H.
Ross, Hamilton Nelson	Beloit	819 Park Ave.
Rowell, Alma Marjorie	Mondovi	743 College St.
Rowell, George Walsh, Jr.	Menomonee Falls	533 Broad St.
Runden, Magnus Elias	Kansasville	704 Park Ave.
Saretsky, Lew R.	Benton Harbor, Mich.	Hillcrest
Schmidt, Earl Cochran	Ft. Missoula, Mont.	C. H.
Scriven, Elizabeth Swift	Beloit	623 College St.
Selkirk, Ralph William	Aurora, Ill.	1125 Chapin St.
Simons, Kansas Katharyn	Yorkville, Ill.	E. H.
Von der Sump, Frederick Herman	Browning	717 Chapin St.
Wade, Warren Corydon	Wauwatosa	424 Prospect St.
Warford, Mary	Geneva, Ill.	E. H.
Wickhem, Valerie Catherine	Beloit	451 Prairie Ave.
Williams, Herbert Franklin	Ewing, Ill.	Hillcrest
Winston, Ruth Loreta	Evansville	E. H.

Seniors—59

Junior Class

Adams, Charles Clarence	Rockford, Ill.	Montgomerie Pk.
Alband, Lillian May	Streator, Ill.	J. H.
Albers, John Wright	Antigo	740 Broad St.
Aldrich, Laura Janvrin	Beloit	423 Bluff St.
Baker, June	Evansville	J. H.
Ballard, Lloyd Vernor	Beloit	1501 W. Liberty Ave.
Becker, Robert Henry	Beloit	403 St. Lawrence Ave.
Brandt, Ray Verner	Beloit	1008 Church St.
Bronson, Reuben Havland	Waupun	740 Broad St.
Brown, Lois Sanborn	Freeport, Ill.	J. H.
Browning, May Lillian	Beloit	622 Broad St.
Bruce, Harold Rozell	Clinton	424 Prospect St.
Burich, Stephen John	Beloit	C. H.
Carter, Martha May	Madison	J. H.
Collette, William Harold	Menominee, Mich.	745 Milwaukee Rd.
Cooper, Grace Berenice	Walworth	J. H.
Cornelius, Alice Winifred	Monroe	J. H.
Crosby, William Randall	Beloit	745 Milwaukee Rd.
Dahlberg, Esther Rose	Beloit	732 Vine St.
De Lano, Maude Adele	Beloit	1101 Barstow Ave.
Densmore, Margaret Seaton	Beloit	718 Clary St.
Dodd, Gladys Marie	Milwaukee	724 Clary St.
Dow, Hermia	Geneva, Ill.	J. H.
Durgin, Elmer Ralph	Racine	C. H.
Frame, Luther Roy	Springfield, Ill.	424 Prospect St.
Francis. Harry Dalton	Beloit	1146 Nelson Ave.
Franz, Jessie Elizabeth	Beloit	524 Bluff St.
Golding, Marvin Earle	Eustis, Fla.	745 Milwaukee Rd.
Goodell, Harry Edward	St. Charles, Ill.	Hillcrest
Gorham, Laura L.	Waukegan, Ill.	J. H.
Gross, John	La Farge	424 Prospect St.
Guest, Arthur Thomas	Rochelle, Ill.	1125 Chapin St.
Hartman, Frances Adelle	Marinette	J. H.
Helm, Alice Mildred	Beloit	734 Broad St.
Hinckley, Royal Riford	Beloit	841 Vine St.
Hoag, Ethel Grace	Baraboo	J. H.
Hoy, Arthur Dwight	Woodstock, Ill.	745 Milwaukee Rd
Hubbard, John Tuttle	Centerbrook, Conn.	Montgomerie Pk.
Johnson, Jennie	Portage	J. H.
Levedahl. William Lorraine	Aurora, Ill.	1248 Chapin St.
Lien, Carl Martin	River Falls	745 Milwaukee Rd.
Lightbody, Marion Helen	Superior	J. H.
Lipman, Viola Ottilie	Beloit	136 W. Grand Ave.
Lyman, Grace	Beloit	747 Park Ave.

McMurry, Ruth Emily	De Kalb, Ill.	J. H.
Moore, Barbara Day	Odanah	J. H.
Morgan, Reginald Atwater	Elgin, Ill.	745 Milwaukee Rd.
Mussetter, Emmor Lee	Victor, Ia.	Hillcrest
Nethercut, William Richard, Jr.	Wauwatosa	1248 Chapin St.
Pearce, Grace Emma	Walworth	819 Park Ave.
Pearsall, Robert Ellis	Evansville	1125 Chapin St.
Peterson, Jennie Edith	Sharon	J. H.
Riggs, Lawrence Howard	Oahe, So. Dak.	Montgomerie Pk.
Robie, Rowland Fairfield	Rockford, Ill.	Hillcrest
Robinson, Blanche Faye	Beloit	535 Public Ave.
Shoemaker, Erma Anna	Janesville	J. H.
Shue, Ingle Roosevelt	Beloit	317 Euclid Ave.
Simons, George Washington, Jr.	Rochelle, Ill.	1125 Chapin St.
Smiley, Vera Grace	Beloit	1236 Chapin St.
Spooner, William, Jr.	Oak Park, Ill.	745 Milwaukee Rd.
Steele, Andrew Lathrop	Dover, Ill.	Hillcrest
Stone, William Edgar	Cambria	Montgomerie Pk.
Thorgrimson, James Rudolph	Decorah, Ia.	424 Prospect St.
Todd, Ethel Marion	Aurora, Ill.	J. H.
Wade, Mabel	Wauwatosa	804 Church St.
Walker, Helen Beach	Boscobel	554 Public Ave.
Webster, Elbert Morgan	Hudson	1125 Chapin St.
Webster, William Brennan	Hudson	1125 Chapin St.
Wolcott, Harold Edward	Joliet, Ill.	1125 Chapin St.
Wolfe, Benjamin Peter	Richfield	740 Broad St.
Wolfe, James Manuel	Beloit	726 Milwaukee Rd.

Juniors—71

Sophomore Class

Barland, Thomas Gordon	Eau Claire	762 Emerson St.
Barron, Alfred Newman	Yorkville, Ill.	Hillcrest
Blunt, Valeria Evans	Clinton, Ia.	E. H.
Buck, Homer Allen	Fort Atkinson	913 Sixth St.
Burke, Walter Smith, Jr.	Batavia, Ill.	1125 Chapin St.
Campbell, Samuel James	Mt. Carroll, Ill.	1248 Chapin St.
Clinchy, Anna Ruth	Beloit	936 Harrison Ave.
Collins, Arthur Farquhar	Hinsdale, Ill.	1125 Chapin St.
Colliver, Vera Sara	Aurora, Ill.	E. H.
Conard, Harold Mead	Oak Park, Ill.	745 Milwaukee Rd.
Connell, Edward Joseph	Beloit	630 Bluff St.
Cooper, Estelle	Clinton	E. H.
Currier, Clark Payne	Aurora, Ill.	424 Prospect St.
Dickinson, Ruth Boyd	Lake Geneva	E. H.
Donovan, William Ray	Yorkville, Ill.	Hillcrest
Dooley, John Wallace	Wyocena	Montgomerie Pk.
Dubee, Arend Van der Veen	Beloit	632 Church St.
Ebert, George Louis	Beloit	727 Central Ave.
Eldridge, Loyal Arthur	DeKalb, Ill.	Hillcrest
Emerson, Margaret	Beloit	736 Church St.
Entrikin, Ralph Knowles	Moline, Ill.	Montgomerie Pk.
Ewing, William Thomas	Freeport, Ill.	Montgomerie Pk.
Fellows, Harriet Lindewood La Fevre	Sioux Falls, So. Dak.	E. H.
Ford, James Robert Holmes	Arlington Heights, Ill.	745 Milwaukee Rd.
Gayton, Lulu Catherine	Beloit	841 Highland Ave.
Gillies, Walter Scott	Evansville	Montgomerie Pk.
Goff, Rispah Britton	Elkhorn	E. H.
Green, Adaline	Beloit	622 Broad St.
Greenlee, Edith Margaret	Argyle, Ill.	E. H.
Hammond, Walter Willis	Beloit	849 Park Ave.
Harris, James Waldo	Rockford, Ill.	Montgomerie Pk.
Haylett, Robert Everett	Milwaukee	1248 Chapin St.
Hiller, Harrod Elliott	Kahoka, Mo.	740 Broad St.
Holmes, Bert Chase	Evansville	1125 Chapin St.
Hutson, Percival Winterburn	Sparta	424 Prospect St.
Hyde, Charles Lee, Jr.	Pierre, So. Dak.	Montgomerie Pk.
Jamieson, Vera Veola	Poynette	E. H.
Jones, Florence Mary	Delavan	E. H.
Juve, Walter Henry	Merrill	C. H.
Kellogg, Amos Barns	Elkhorn	1252 Josephine Ave.
Kent, Sherman Edwards	Beloit	635 Park Ave.
Kerwin, Fred Noble	Oelwein, Ia.	C. H.
Kittelson, John Asdal	Beloit	624 Church St.

Lamb, Alvin Romaine	Linden	C. H.
Lauderdale, Lila Mae	Elkhorn	E. H.
Lentell, Louise Stanley	Beloit	R. F. D. 25
Lewis, Lydia Mae	Earlville, Ill.	E. H.
McCoy, Ralph Weston	New Richmond	1125 Chapin St.
McLay, Florence Jane	Janesville	J. H.
Macumber, Philips Harlow	Superior	745 Milwaukee Rd.
Marks, Frederick	Beloit	C. H.
Mereness, Luella Frances	Darien	E. H.
Michie, John Gordon	Houston, Tex.	424 Prospect St.
Miller, Edward Holmes	Aurora, Ill.	724 Clary St.
Miller, James Allen	Toulon, Ill.	Montgomerie Pk.
Moses, Frank Dudley	Clay Center, Kan.	563 Broad St.
Naftalin, David Wattell	Chicago, Ill.	Hillcrest
Nichols, George Byron	Sharon	C. H.
Nichols, Henry Carpenter	Chicago, Ill.	C. H.
Northrop, Marjorie Filmer	Beloit	818 Church St.
Norton, Ruth Reid	Elgin, Ill.	E. H.
Nott, Ethel Ruth	Elkhorn	E. H.
O'Brien, Mary Marguerite	Tracy, Minn.	E. H.
Olson, Hazel	Aurora, Ill.	E. H.
Osborne, Clinton Milan	Rockford Ill.	1248 Chapin St.
Pellet, Frederic Dwight	Oak Park, Ill.	745 Milwaukee Rd.
Petersen, Elsa Mabel	Dundee, Ill.	717 Harrison Ave.
Ramsay, Gaylord Walter	Chillicothe, Ill.	424 Prospect St.
Reed, Bessie Davis	Beloit	1215 Bushnell St.
Reid, Iva Mary	Rockford, Ill.	E. H.
Saxton, Lillian Margaret	Belvidere, Ill.	949 Park Ave.
Seiffert, Albert	Chicago, Ill.	C. H.
Selleseth, Iver Ferdinand	Glenwood, Minn.	1125 Chapin St.
Simmons, Jennie Elizabeth	Fargo, No. Dak.	E. H.
Sleep, Roy Allen	Elkhorn	740 Broad St.
Smith, Edward King	Beloit	514 Pleasant St.
Smith, Elizabeth	Beloit	649 Harrison Ave.
Stitt, Raymond De Vries	Morgan Park, Ill.	557 E. Grand Ave.
Strong, Emerson Endicott	Chicago, Ill.	740 Broad St.
Sullivan, Julia Gertrude	Cherokee, Ia.	E. H.
Sutherland, Mildred Louise	Madison	E. H.
Sutton, Irene	Burlington	949 Church St.
Thornton, Agnes	New Bedford, Mass.	E. H.
Tuft, Harry William	Sharon	C. H.
Turney, Marguerite Frances	Aurora, Ill.	E. H.
Van Lone, Irwin Ivan	Beloit	327 W. Grand Ave.
Vehmeier, Fred Eldon	Dakota, Ill.	740 Broad St.

Warner, Frederick Raynsford	Geneva, Ill.	1248 Chapin St.
Weirick, Hazel Thayer	Beloit	211 St. Lawrence Ave.
Whittlesey, Derwent Stainthorpe	Rockford, Ill.	424 Prospect St.
Williams, Ward Sawyer	New Richmond	613 Prairie Ave.
Williamson, William Rowland	Memphis, Tenn.	763 Milwaukee Rd.

Sophomores—92

Freshman Class

Aldrich, Lynn Ellis	Rockford, Ill.	1248 Chapin St.
Alpine, John Gorman	Joliet, Ill.	1248 Chapin St.
Alyea, Melvil	Earlville, Ill.	840 Park Ave.
Amborn, Edna Viola	Burlington	S. C.
Anderson, Edward August	Merrill	C. H.
Armstrong LeRoy Allen	Boscobel	603 Harrison Ave.
Baker, Lea Williamson	Palatine, Ill.	647 College St.
Barton, Henry Charles	Malta, Ill.	624 Church St.
Bates, Lynn Alan	Allison, Ia.	552 Public Ave.
Bates, Winifred	Capron, Ill.	S. C.
Baumes, Edith Susan	Beloit	603 Harrison Ave.
Beebe, Chauncey DeWitt	Sparta	C. H.
Benedict, Edgar Layton	Merrill	C. H.
Bennett, Howard James	Beloit	803 Bluff St.
Blazer, Gertrude Elizabeth	Beloit	509 Broad St.
Blodgett, Pliny Russell	Lake Geneva	803 College St.
Bort, Albert Samuel	Beloit	423 Prospect St.
Brickley, George Edward	Harvard, Ill.	1087 Harrison Ave.
Bridgman, Robert Larkworthy	Beloit	953 Vine St.
Brink, Pierre LeRoy	Pierre, S. D.	Montgomerie Park
Brittan, Mary	Beloit	541 Park Pl.
Brodtkorb, Lola	Edgeley, No. Dak.	J. S. C.
Brodtkorb, Sara	Edgeley, No. Dak.	J. S. C.
Brown, Carroll Warren	Fort Atkinson	625 Harrison Ave.
Brown, Clifton Martin	Beloit	Montgomerie Park
Buelow, Earl Francis	Waupun	740 Broad St.
Canright, Emory Moran	Fairmont, Minn.	C. H.
Caskey, Earl James	Beloit	111 Roosevelt Ave.
Chapman, Louise	Lake Geneva	J. S. C.
Chesbrough, Gertrude	Beloit	651 Park Ave.
Chilson, Benjamin	Sharon	1148 Barstow Ave.
Clark, Roy Gordon	West Chicago, Ill.	740 Broad St.
Clarke, Lee Fletcher	Blue Island, Ill.	763 Milwaukee Rd.
Collver, Marguerite Gillis	Clinton	S. C.
Cooke, Rodney S.	Mondovi	747 Harrison Ave.
Cowing, Glenn Lincoln	Joliet, Ill.	C. H.
Crawford, Chrissie Louise	Baraboo	936 Park Ave.
Dahlgren, George Arthur	LaCrosse	C. H.
Davidson, Preston Lewis	Hinsdale, Ill.	848 Park Ave.
Day, Clifford Louis	Beloit	424 Prospect St.
De Lancey, Mary	Elgin, Ill.	S. C.
Densmore, Ethelwyn Dorothy	Beloit	718 Clary St.
Duncalf, William Raymond	Lancaster	424 Prospect St.

Eames, Raymond Rexford	Elgin, Ill.	S. C.
Eakin, Eleanor Jane	Elgin, Ill.	S. C.
Eastman, Stanley Everett	Marinette	651 Park Ave.
Emerson, Cordelia	Beloit	736 Church St.
Fairfield, Helen	Ames, Ia.	717 Emerson St.
Flint, Eunice Mildred	Beloit	748 Elm St.
Florey, Clarence Allen	Beloit	822 Fifth St.
Fluekiger, Ernest Rust	Beloit	937 Bluff St.
French, Samuel Lorenzo	Milwaukee	C. H.
Fuller, Hazel Marguerite	Beloit	511 Public Ave.
Fullerton, Theron Bushnell	Ottawa, Ill.	1248 Chapin St.
Funk, Raymond Oswald	Carver, Minn.	C. H.
Glover, Howard Jay	New Richmond	628 Pleasant St.
Goble, Clyde	Lancaster	915 Bushnell St.
Goldschmidt, Samuel Meyer	Earlville, Ill.	840 Park Ave.
Goll, Robert, Jr.	Milwaukee	C. H.
Goodrich, Winifred	Milton Junction	J. S. C.
Gourley, Arthur Lyle	Waukegan, Ill.	C. H.
Gray, Philip Marshall	Chicago, Ill.	1003 Emerson St.
Green, Homer Whitney	Cherokee, Ia.	C. H.
Gregory, Gladys	Beloit	516 College Ave.
Hamilton, Francis Willard	Gardner, Ill.	C. H.
Hanaford, Clara Agnes	Elgin, Ill.	J. S. C.
Hanna, Philip Winchester	Oak Park, Ill.	731 Park Ave.
Harris, Hugh	Waukesha	745 Milwaukee Rd
Hart, Jeanette Mary	Elroy	E. H.
Hartley, Everett Charles	Carver, Minn.	C. H.
Hawley, Lawrence	Berlin	724 Clary St.
Heinrich, Carl Jacob	Stoughton	Montgomerie Park
Hevey, John Arthur	Beloit	1005 Church St.
Hineline, Marjorie Laird	Freeport, Ill.	Highlands
Hoefer, Ruby Anna	Freeport, Ill.	J. S. C.
Hogarth, Frank William	Beloit	1237 Prairie Ave.
Howard, Blanche Morton	Waupun	E. H.
Hoyer. Irene Dorothy Emmy	West Bend	643 Bluff St.
Huling, John Gerald, Jr.	Hoopeston, Ill.	840 Park Ave.
Hyde, Will Carrington	Janesville	C. H.
Hyslop, Clayton James	Blair	740 Broad St.
Hyslop, Orton Charles	Blair	740 Broad St.
Ives, Warren Chamberlain	Pecatonica, Ill.	745 Milwaukee Rd.
Jamieson, Hugh John	Poynette	647 College St.
Johns, May Caroline	Mazomanie	S. C.
Johnson, Ben Frank	Pine River	818 Church St.
Johnson, James King	Waterloo	745 Milwaukee Rd.
Jost, Peter	Mondovi	C. H.
Juve, Karl Lincoln	Merrill	C. H.
Kalt, Albert Victor	Glenhaven	C. H.
Krengel, Irving Hubner	Elgin, Ill.	1248 Chapin St.

Landing, Harold	Glenwood, Minn.	C. H.
Larson, Bertil Thomelius	Crystal Falls, Mich.	C. H.
Learnard, Ralph King	Joliet, Ill.	1248 Chapin St.
Lentell, Edith Rebecca	Beloit	R. F. D. 25
Lewis, Theodore Conrad	Stoughton	763 Milwaukee Rd.
Lisherness, Millicent Margery	Lancaster	J. S. C.
Lowe, Harry Lester	Beloit	543 E. Grand Ave.
Lyon, Elmer Bernard	Sawyer	C. H.
MacKenzie, Vira	Elkhorn	S. C.
McClellan, James Maxwell	Hamilton, Ohio	C. H.
McGarvey, Agnes	Wilton	911 Church St.
McGowan, Joe Bennett	Janesville	724 Chapin St.
McIntosh, Roscoe Lyle	Edgerton	740 Broad St.
McOwan, Amy Arabelle	Yorkville, Ill.	S. C.
Markham, Claron Sidney	Benton Harbor, Mich.	840 Park Ave.
Martin John George	Oak Park, Ill.	1248 Chapin St.
Merriman, Kathryn Marion	Beloit	1304 Prairie Ave.
Miller, Mabel Irene	Bristol, Ill.	S. C.
Miller, Winifred Esther	Mondovi	S. C.
Mills, Margaret Elizabeth	Oak Park, Ill.	S. C.
Monson, Marshall Burnell	Blanchardville	424 Prospect St.
Moyer, Gaelord	Waterloo	625 Harrison Ave.
Murdock, Marjorie	Beloit	551 E. Grand Ave.
Murphy, James Emmett	Janesville	724 Chapin St.
Musser, Adah Rebekah	Keokuk, Ia.	1236 Porter Ave.
Nesbit, Maude Elizabeth	Freeport, Ill.	J. S. C.
Northrop, Marshall Mills	Beloit	818 Church St.
Nye, Laura	Beloit	643 Park Ave.
O'Connor, Richard Goodhue	Whitewater	625 Harrison Ave.
Orvis, Lloyd	Waukegan, Ill.	C. H.
Parker, Florence Bennett	Aurora, Ill.	S. C.
Pearsall, Clifford J.	Evansville	723 Prairie Ave.
Pierce, Louise Winifred	Elgin, Ill.	S. C.
Ploetz, William Randolph	Prairie du Sac	624 Church St.
Post, Leroy Earle	Milwaukee	731 Park Ave.
Pritzlaff, Herbert Frederic	Milwaukee	C. H.
Puffer. Ray King	Joliet, Ill.	1248 Chapin St.
Raisen, Earl Dalton	Milwaukee	C. H.
Ralston, Daniel Caldwell	Caledonia, Ill.	538 Broad St.
Ransom, Leland	Rockford, Ill.	751 Church St.
Ransom, Stanley McVenn	Atkinson, Ill.	C. H.
Rau, Edward Ritsher	Beloit	826 College St.
Roadhouse, Wilbur	Beloit	527 Broad St.
Roberts, David Claude	Cambria	Montgomerie Pk.
Rogers, Malcolm Fletcher	Oconomowoc	1210 Chapin St.
Roos, Evelyn	Manistique, Mich.	S. C.
Rosenberg, Paul Waldo	Rochelle, Ill.	1208 Chapin St.

Rosenblatt, Doretta Lillian	Beloit	431 Harrison Ave.
Rosenthal, Harry John	Rockford, Ill.	647 College St.
Rowell, Wallace Arthur	Menomonee Falls	C. H.
Russell, Marion	Elgin, Ill.	S. C.
Saxby, Chester Leopold	Moline, Ill.	716 Emerson St.
Sayre, Ralph	Beloit	315 Locust St.
Shellestad, Ernest	Stoughton	C. H.
Shultz, Louis Charles	Columbus	423 Prospect St.
Smith, Alice Claire	Sleepy Eye, Minn.	E. H.
Smith, Kenneth Blume	Viroqua	840 Park Ave.
Smith, Vera Louise Davies	Pueblo, Colo.	S. C.
Sterling, Marie	Austin, Minn.	E. H.
Stevens, William Henry	Cloquet, Minn.	C. H.
Sutherland, Arlie	Janesville	S. C.
Taylor, Gertrude Diana	Delavan	J. S. C.
Theobold, Harold	Evansville	C. H.
Thompson, Cyril Clouse	Elgin, Ill.	441 Harrison Ave.
Thompson, Edna Mary	Spring Valley, Ill.	E. H.
Thompson, Laura Josephine	Beloit	316 St. Lawrence Ave.
Thornton, Emily	New Bedford, Mass.	S. C.
Titsworth, Alexander Dunham	Western Springs, Ill.	723 Prairie Ave.
Tower, Nelle	Beloit	910 Broad St.
Turner, Hallie Frances	Albany	S. C.
Tyrrell, Franklin Edward	Lake Geneva	763 Milwaukee Rd.
Usborne, Muriel Lois	Milwaukee	J. S. C.
Vergades, Vasileios	Beloit	816 E. Grand Ave.
Wallace, George Allan	Oak Park, Ill.	745 Milwaukee Rd.
Warren, Marguerite	Waupun	E. H.
Weirick, Bessie Muriel	Beloit	211 St. Lawrence Ave.
Westine, Fred	Kenosha	C. H.
White, Cleveland	Shullsburg	747 Harrison Ave.
White, Louise Frances	Stillman Valley, Ill.	S. C.
White, Herbert Ralph	Milwaukee	C. H.
Wickhem, Elizabeth Marie	Beloit	451 Prairie Ave.
Wilcox, Kathryn Rae	St. Charles, Ill.	S. C.
Willard, Harold Allen	Belvidere, Ill.	1248 Chapin St.
Williams, Mary	Delavan	S. C.
Williams, Phoenix Edward	Delavan	1248 Chapin St.
Williams, Ralph Stephen	Sparta	1248 Chapin St.
Williams, Ruth	Boscobel	S. C.
Williams, William Pearce	Ewing, Ill.	C. H.
Williamson, Chester Hubbard, Jr.	Memphis, Tenn.	C. H.
Wilson, George William	Green Bay	1213 Chapin St.
Wollesen, Emil Christian	Mellen	C. H.
Woodard, Harry	Fairmont, Minn.	424 Prospect St.
Woodburn, Adelbert	Byron, Ill.	818 Church St.

Woodward, Clair Linton	Orchard, Ia.	1087 Harrison Ave.
Yordy, Franklin M.	Freeport, Ill.	C. H.
Young, Walter Eldo	Alcester, So. Dak.	624 Church St.

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DAILY NEWS PUB. CO.
BELOIT, WIS.

1911/12

OF THE
UNIVERSITY OF ILLINOIS

BELOIT COLLEGE BULLETIN

Vol. X MARCH, 1912 No. 4

The Catalogue

1911 - 1912

PUBLISHED BY
BELOIT COLLEGE
BELOIT, WISCONSIN

Corporate Name.

The corporate name of Beloit College for use in all wills, bequests and gifts is "THE BOARD OF TRUSTEES OF BELOIT COLLEGE".

Correspondence

Address the Registrar of the College, for

1. Catalogues and other publications of the College.
2. Information regarding admission, accrediting of schools, certificates and examination.
3. Accommodations in dormitories.
4. Extension lectures.

Address the Editor of the Catalogue for information concerning Alumni.

Send all deposits and other payments to Edward B. Kilbourn, Treasurer of the College, to whom all checks should be made payable.

SIXTY-FIFTH ANNUAL

CATALOGUE

— OF —

BELOIT COLLEGE

ISSUED AS
VOL. X, No. 4
OF
The Beloit College Bulletin

Entered December 16, 1902, at the Postoffice in Beloit, Wisconsin, as
Second Class Matter, Under Act of Congress of July 16, 1894

BELOIT, WISCONSIN
March, 1912

1911

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College Calendar

1911.			
September	19,	Examination for admission	Tuesday
		Registration of Freshmen	9 A.M. to 4 P.M.
September	20,	Registration of Upper Classes,	9 A.M. to 4 P.M. Wednesday
		First Semester begins: Convocation	4:30 P.M.
October	11,	Big Hill Day	Wednesday
October	17,	Meeting of the Board of Trustees,	Tuesday
November	29,	Recitations close	12 M. Wednesday
		THANKSGIVING RECESS	
December	1,	Recess closes	1:30 P.M. Friday
		Registration	1 to 3 P.M.
December	15,	Home Oratorical Contest	Friday
December	20,	Winter Recess begins	12 M. Wednesday
		WINTER RECESS	
1912			
January	3,	Winter Recess closes	1:30 P.M. Wednesday
		Registration	1 to 3 P.M.
January	16,	Meeting of the Board of Trustees	Tuesday
January	24,	Election of Studies for Second Semester,	Wednesday
January	25,	Day of Prayer for Colleges	Thursday
February	7,	First Semester closes	12 M. Wednesday
		Second Semester begins: Registration,	2:30 to 6 P.M.
February	16,	Matriculation	11:30 A.M. Friday
February	22,	Washington's Birthday	Thursday
March	22,	Spring Recess begins	12 M. Friday
		SPRING RECESS	
April	2,	Spring Recess closes	1:30 P.M. Tuesday
		Registration	1 to 3 P.M.
April	16,	Meeting of the Board of Trustees	Tuesday
May	22,	Election of Studies for First Semester, 1912-1913	Wednesday
May	30,	Memorial Day	Thursday
June	1,	Essays in competition for prizes due,	Saturday

June	13,	Final Chapel Exercises	Thursday
June	15,	Rice Extemporaneous Speaking	Saturday
		Meeting of the Board of Trustees	
June	16,	Address before the Christian Associations,	10:30 A. M. Sunday
		Baccalaureate Sermon	5 P.M.
June	17,	Alumni Luncheon	12:30 P.M. Monday
		Class Day Exercises	
June	18,	Commencement Day.	Tuesday
		Graduation Exercises	9:00 A.M.

Summer Vacation

September	17,	Examinations for admission	Tuesday
		Registration of Freshmen	9 A.M. to 4 P.M.
September	18,	Registration of Upper Classes	9 A.M. to 4 P.M. Wednesday
		First Semester begins: Convocation	4:30 P.M.
October	9,	Big Hill Day	Wednesday
October	15,	Meeting of the Board of Trustees	Tuesday
November	27,	Recitations close	12 M. Wednesday

Thanksgiving Recess

November	29,	Recess closes	1:30 P.M. Friday
		Registration	1 to 3 P.M.
December	13,	Home Oratorical Contest	Friday
December	19,	Winter Recess begins	12 M. Thursday

Winter Recess

1913			
January	2,	Winter Recess closes	1:30 P.M. Thursday
		Registration	1 to 3 P.M.

NOTE:—For students who are conditioned or who have work to make up, examinations are held during the spring recess and the summer vacation. These examinations, for which a schedule is posted two weeks in advance, cover a day and a half, beginning on the first Friday afternoon of the spring recess and the final Tuesday morning of the summer vacation. All students who have work to make up must present themselves for examination at the appointed hour.

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EDWARD DWIGHT EATON, D.D., LL.D., *President, on the D. K. Pearsons Foundation, and Professor of Ethics.*
846 College St.

GEORGE LUCIUS COLLIE, PH.D., *Dean and Professor of Geology, on the Alumni Foundation.* 731 Park Ave.

WILLIAM PORTER, D.D., *Brinsmade Professor of Latin, Emeritus; on the Carnegie Foundation.* 735 College St.

THOMAS ALEXANDER SMITH, PH.D., *Hale Professor of Mathematics and Physics.* 1023 Chapin St.

ERASTUS GILBERT SMITH, PH.D., *Professor of Chemistry, on the Charlotte M. Fiske Foundation.*
649 Harrison Ave.

ALMON WHITNEY BURR, M.A., B.D., *Professor of Pedagogy.*
742 Church St.

CALVIN WASSON PEARSON, PH.D., *Professor of the German Language and Literature, Emeritus; on the Carnegie Foundation.* Wallingford, Penn.

THEODORE LYMAN WRIGHT, M.A., LITT.D., *Thomas W. Williams Professor of Greek Literature and Art.*
839 Church St.

HIRAM DELOS DENSMORE, M.A., *Cornelia Bailey Williams Professor of Botany.* 718 Clary St.

ROBERT COIT CHAPIN, PH.D., *Horace White Professor of Economics and Finance.* 709 College St.

FOREST EMBERSON CALLAND, M.A., *Professor of Latin Literature.* 949 Church St.

ROBERT KIMBALL RICHARDSON, PH.D., *Professor of History.* 829 Church St.

WILLIAM ALBERT HAMILTON, PH.D., *Professor of Astronomy and Mathematics, and Director of the Observatory on the Edward Ely Foundation.* 805 Church St.

HENRY WILLIAM DUBEE, M.A., *Harwood Professor of German.* 632 Church St.

ROYAL BRUNSON WAY, PH.D., *Professor of Political Science and American History.* 718 Church St.

CHARLES AARON CULVER, PH.D., *Professor of Physics.* 936 Park Ave.

JOHN PITT DEANE, B.A., B.D., *Professor of Biblical Literature.* 742 Church St.

KARL TINSLEY WAUGH, PH.D., *Professor of Mental Science and Philosophy, on the Squier Foundation.* 911 Church St.

JOHN EDWIN WELLS, M.L., M.A., *Professor of English Literature on the Rufus Sage Foundation.* 911 Park Ave.

*BEVERLY WAUGH KUNKEL, PH.D., *Associate Professor of Zoology.*

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* Beginning duties September, 1912.

‡JONATHAN RISSER, M.A., *Assistant Professor of Zoology.*
Cambridge, Mass.

†SAMUEL GUY WINTER, M.A., *Acting Associate Professor of Zoology.* 910 Broad St.

KATHRYN NEWELL ADAMS, B.A., *Dean of Women and Instructor in English.* Emerson Hall

DANA MCKEAN EVANS, *Director of the Gymnasium and Assistant Professor of Physical Training, on the James A. Brewster Foundation.* 1016 Church St.

CLAYTON DELISLE CRAWFORD, LL.B., *Assistant Professor of Public Speaking, on the Knapp Foundation.*
949 Park Ave.

CHARLES EDMUND YOUNG, M.A., *Assistant Professor of Romance Languages.* 1251 Emerson St.

GEORGE CARPENTER CLANCY, M.A., *Assistant Professor of Rhetoric, on the Root Foundation.* 717 Emerson St.

JAMES TAYLOR SLEEPER, B.A., *Assistant Professor of Music.*
Chapin Hall

HELEN BRACE EMERSON, *Curator of the Art Collections.*
810 College St.

IVA MARION BUTLIN, M.A., *Instructor in Library Science.*
715 Church St.

FREDERICK JAMES MENGER, JR., M.A., *Instructor in German.* 747 Park Ave.

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‡ Until January, 1912.

† During the Second Semester.

ANDREW FRIEDLEY MCLEOD, PH.D., *Instructor in Chemistry.* 832 Park Ave.

MARGARET FULLER ROGERS, *Director of the Women's Gymnasium and Instructor in Physical Training.* 741 Church St.

HAROLD GUY MERRIAM, B.A., *Instructor in English Literature.* 302 Chapin Hall

AUGUST JOHN WALTER HORST, M.A., *Instructor in French and German.* 831 Park Ave.

CHARLES DARWIN ROSA, B.A., LL.B., *Lecturer on Commercial Law.* 1207 White Ave.

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GEORGE CLARK HAYNES, B.S., *Laboratory Assistant in Biology.* Chapin Hall

MABEL CLARE HUSCHKA, B.S., *Laboratory Assistant in Biology.* Stowell Cottage

HILMAR KOEFOD, B.S., *Laboratory Assistant in Chemistry.* 301 Chapin Hall

CHARLES ENION SMITH, *Assistant in Gymnasium.* 201 Chapin Hall

Exchange Professors

1911-12.

Albert Bushnell Hart, ph.d., litt.d., ll.d., *Eaton Professor of Science of Government in Harvard University.* Cambridge, Mass.

1912-13.

George Herbert Palmer, a.m., litt.d., ll.d., *Alford Professor of Natural Religion, Moral Philosophy and Civil Polity in Harvard University.* Cambridge, Mass.

Lecturers

1911-12.

Caspar Rene Gregory, ph.d., ll.d., *Lecturer on the George Greiner Schneider Foundation.*
University of Leipsig, Leipsig, Germany.

1912-13.

Rev. Harlan Page Beach, m.a., *Professor of the Theory and Practice of Missions in Yale University; Lecturer on the Porter Missionary Lecture Foundation.*
New Haven, Conn.

Committees of the Faculty

On Accredited Schools and Entrance: Professors Densmore, Hamilton, Way.

On Administration: The President, the Dean, the Dean of Women, the Recorder, the Registrar, the Secretary of the Faculty, Professor Richardson.

Sub-Committee on the Educational Development of the College: The President, the Registrar, Professor Richardson.

Sub-Committee on Fraternities: The Dean, the Registrar, the Secretary of the Faculty.

On Catalogue and Bulletins: Professors E. G. Smith, Waugh, Clancy.

On Courses of Study: Professors Chapin, Densmore, Dubee, Wells.

On Delinquencies: The Dean, the Dean of Women, Professors Chapin, Densmore.

On Faculty Meetings: Professors Calland, Burr, Waugh, Wells, Mr. Merriam.

On Graduate Study: Professors Dubee, Young, Miss Adams, Mr. Horst.

On Grounds: Professors Wright, Deane, Sleeper.

On Gymnasium and Athletics: Professors Hamilton, Evans, Mr. Light, Miss Rogers.

On Lecture Courses: Professors Way, Calland, Culver, Mr. Menger.

On the Library: Professors Deane, Chapin, E. G. Smith, Wells.

On Positions for Graduates: Professors Burr, Calland, Way.

On Press: Professors Culver, Clancy, Mr. Light.

On Promotion of Scholarship: Professors Burr, Dubee, Richardson, E. G. Smith.

On Public Occasions: Professors E. G. Smith, Crawford, Sleeper, Dr. McLeod.

On Religious Exercises: Professors Richardson, Culver, Wright, Mr. Light.

On Rules: Professors Wright, T. A. Smith, the Dean of Women.

On Schedules: Professors Richardson, Hamilton, Culver.

On Scholarships: Professors Densmore, Burr, T. A. Smith.

Members of Athletic Board of Control: Professor Hamilton, Chairman, Mr. Light.

Members of Board of Control of Archæan Union: Professor Chapin, Chairman, Professor Culver.

Advisers to Musical Association: Professors Deane, Dubee.

Student Advisers

For the Class of 1914: Professor Burr, Chairman; Professors Calland, Culver, Deane, Richardson, Waugh, Wright.

For the Class of 1915: Professor E. G. Smith, Chairman; Professors Burr, Chapin, Clancy, Densmore, Dubee, Hamilton, T. A. Smith, Way, Wells, Young.

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846 College St.

George Lucius Collie, Ph.D. *Dean*
731 Park Ave.

Kathryn Newell Adams, B.A. *Dean of Women*
Emerson Hall.

Hiram Delos Densmore, M.A. *Registrar*
718 Clary St.

Erastus Gilbert Smith, Ph.D. *Recorder*
649 Harrison Ave.

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709 College St.

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Helen Brace Emerson *Curator of the Art Collections*
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Dana McKean Evans *Director of Athletics*
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General Secretary and Head of Chapin Hall
Chapin Hall.

Flora McDonald Wood *Head of Junior House*
Junior House

Mabel Clare Huschka, B.S. *Head of Stowell Cottage*
Stowell Cottage

Henrietta A. Kilbourn, B.A.
Head of Julia Salmon Cottage
Julia Salmon Cottage.

Cora Cooper Cross *Matron of Emerson Hall*
Emerson Hall

John Barvell Pfeffer *Head Janitor*
725 Chapin St.

John Allen Ellingson *Supt. of Buildings and Grounds*
Superintendent's House, Campus

George Clark Haines, b.s. Chapin Hall	*Assistant in the Library*
M. Belle Alexander 1235 Chapin St.	*Treasurer's Assistant*
Hilmar Koefod, b.s. 301 Chapin Hall	*Assistant in the Library*
Marie Fox 915 Bushnell St.	*Registrar's Assistant*
Mildred Lois Eaton 846 College St.	*Secretary to the President*
Alda Fluekiger, b.a. 937 Bluff St.	*Recorder's Assistant*

Office Hours

The President — President's rooms, Library, 10:00 to 11:00 a.m., except Saturday.

The Dean—Dean's office, Middle College, 4:30 to 5:30 p.m., except Saturday.

The Dean of Women—Emerson Hall, 12:30 to 1:30 and 6:30 to 7:30 p.m., daily.

The Registrar—Registrar's office, Middle College, 4:00 to 4:30 p.m., except Saturday.

The Recorder—Recorder's office, Middle College, 9:30 to 10:30 a.m., except Saturday.

The Treasurer—Middle College, 9:00 to 12:00 a.m., and 1:30 to 4:30 p.m., except Saturday afternoon.

Origin and Development

AS early as 1843 there was some discussion of the need and possibility of a college for the new region opened to settlement by the Black Hawk war in the Northwest Territory. In June, 1844, a general convention of Congregational and Presbyterian churches in the Northwest was held at Cleveland, Ohio, at which education received much attention. Returning delegates decided to call a convention in Beloit in August, 1844, to plan for the location of institutions for Wisconsin, Illinois, and Iowa.

Three more conventions were held—all in Beloit, for it was felt from the outset that Beloit was the most favorable place for a college in Wisconsin. The first meeting of the trustees was held October 23rd, 1845. The charter of the college, approved by the Governor of the Territory of Wisconsin, February 2nd, 1846, is as follows:

Be it enacted by the Council and House of Representatives of the Territory of Wisconsin:

SECTION 1. (That) Revd's A. Kent, D. Clary, S. Peet, F. Bascom, C. Waterbury, J. D. Stevens, A. L. Chapin, R. M. Pearson, Mrs. G. W. Hickox, A. Raymond, C. M. Goodsell, E. W. Potter, L. G. Fisher, W. Talcott, Charles S. Hempstead, and Samuel Hinman and their successors be, and they are hereby created, a body politic and corporate to be styled THE BOARD OF TRUSTEES OF BELOIT COLLEGE, and by that name to remain in perpetual succession, with full power to sue and be sued, plead and be impleaded, to acquire, hold, and convey property, real and personal; to have and use a common seal, to alter and renew the same at pleasure; to make and alter, from time to time, such by-laws as they may deem necessary for the government of said institution, its officers and servants: *Provided*, such by-laws are not inconsistent with the constitution and by-laws of the United States or of this Territory; also to have power to confer on those whom they may deem worthy, all such honors and degrees as are usually conferred in like institutions.

SECTION 2. That the said College be located in the township of Beloit, Rock County, and shall be erected on a plan sufficiently extensive to afford instruction in the liberal arts and sciences; and the trustees may, as their ability shall increase, and the interests of the country require, erect any or all of the different departments for the study of the liberal professions, in such locations as may be most feasible, in the town of Beloit.

SECTION 3. That the board of trustees shall have power to appoint a president, vice-president, treasurer and such agents as they may deem necessary, and shall fill all vacancies that may occur in their own board, by (expiration of term), resignation, death or neglect for more than one year to attend to the duties of the trustee; also, to prescribe and direct the course of studies to be pursued in the institution and its departments.

SECTION 4. That the board of trustees shall consist of sixteen members, with power to increase their number to twenty-four; and (any) seven of whom shall constitute a quorum for the transaction of business. Said board of trustees shall hold their first annual meeting in the township of Beloit, on the fourteenth day of April, 1846, and afterwards they shall meet on their own adjournments; but in cases of emergency the president, with the concurrence of two trustees, may call a special meeting, or any five members may call such meeting by giving notice to such (each) member at least ten days before the time of such meeting.

SECTION 5. That the board of trustees shall faithfully apply all funds by them collected or received, according to their best judgment, in erecting suitable buildings, supporting the necessary officers, instructors and servants, in procuring books and apparatus, necessary to the success of the institution; *Provided, nevertheless*, That in case any donation or bequest be made for particular purposes, which accord with the designs of the institution, and the corporation shall receive and accept the same, every donation or bequest thus made shall be applied in conformity to the conditions or designs expressed by the donor.

SECTION 6. That the treasurer of the institution shall always, and all other agents when required, before entering upon the duties of their appointments, give bond for the security of the corporation, and of the public, in such penal sums, and with such sureties as the board of trustees shall approve.

SECTION 7. That no religious tenets or opinions shall be requisite to entitle any person to be admitted as a student in said college, and no such tenets or opinions shall be required as a qualification for any professor, tutor, or teacher of said college, and no student of said college shall be required to attend religious worship in any particular denomination.

SECTION 8. The Legislature shall have full power to alter, amend or repeal this act at any time, without any judicial investigation, and vested rights to the contrary notwithstanding.

Approved, February 2, 1846.

Subsequent amendments have increased the number of Trustees to thirty, divided into three classes each of which serves three years, nine of whom should constitute a quorum, and have removed the requirement that all departments of the college be located in Beloit.

Middle College, the first college building, was begun in the autumn of 1846. The first Freshman class began work November 4th, 1847, under the instruction of Mr. S. T. Merrill, reciting in the basement of the old stone church and later in a private house. Professor J. J. Bushnell came in April and Professor Joseph Emerson in May, 1848; Professor William Porter in September, 1852; Professor J. J. Blaisdell in September, 1859. Rev. Aaron L. Chapin was elected president, November 21st, 1849, and was inaugurated July 24th, 1850. On his resignation of the presidency, June 29th, 1886, Rev. Edward D. Eaton was elected his successor, and was inaugurated November 4th, 1886. December 31st, 1905, President Eaton resigned his position, on account of impaired strength, but was re-inaugurated, after a period of rest, on March 4th, 1908.

Little by little the funds of the college have been enlarged; new buildings have been erected to meet its growing needs; and the number of students and teachers has more than kept pace with the increase in equipment. Since the first class, consisting of three men, was graduated in 1851, there has been no break in the succession of graduating classes. Until 1874, only a classical course was offered; in that year a philosophical course was added, and was discontinued in 1900; the science course was introduced in 1892. The Chapel building, dedicated in 1892, gave an appropriate centre for the religious life of the college. Women were admitted to the college classes in September, 1895, and were first graduated in 1898. In 1898 also, Emerson Hall was completed to provide accommodations for the young women. The opening of the Smith Gymnasium in 1904, and of the Carnegie Library in 1905, mark further steps in the equipment of the institution for its expanding life.

Since the institution was founded, over six thousand young men and young women have been enrolled as students in its classes, of whom 1,182 have been graduated.

The founders and most active early friends of Beloit College were chiefly Congregationalists and Presbyterians, and these bodies continue to be most immediately interested in its development and are the largest sharers in its life; but it has always had warm support from many branches of the Christian church, and it has striven to deserve the confidence of all men. It purposes to continue to be evangelical and unsectarian. It was established with the conviction that thoroughness in education was as good a thing for the West as for the East, and that a thorough and rounded education must combine learning, morality, and religion.

The strenuous endeavor is made to teach the heart as well as the mind, and to give a personal care that shall reach the individual needs of every student. The lives and the work of its former students constitute the best evidence of its spirit and its success.

Location and Equipment.

Beloit College is located at Beloit, Wisconsin, near the southern boundary line of the state. Beloit is a thriving city of about fifteen thousand population, situated on the Rock River; it is at the junction of the Chicago and Northwestern and the Chicago, Milwaukee and St. Paul railroads and is in the center of a prosperous farming section. It has several large manufacturing establishments mostly in the iron industry; has ample railroad, postal and telegraph facilities and, while sufficiently large to meet all ordinary requirements for modern life, does not offer the distractions of the great cities.

The college buildings are located on high gravel bluffs east of Rock River, and the dormitories and other buildings are well drained and dry all the year through. The city of Beloit has an enviable record for general healthfulness,—a record made possible by its fine water supply, excellent sewer system, the porous soil beneath, and the general elevation above the river level.

GROUNDS AND BUILDINGS.

The College grounds including the College Campus on which are located most of the College buildings, and the grounds for the women's dormitories to the north of the main campus, comprise about forty acres located on high ground and well covered with trees. The large athletic grounds, known as College Field, are situated one-half mile to the east.

The buildings have been named in most cases, for the principal donor of funds for their erection. A description of them follows:

MIDDLE COLLEGE.

Middle College, the original college building, the cornerstone of which was laid in 1847, is located in the center of the College Campus. It is a four story brick building with basement and high roof.

On the first floor are administrative offices of the Dean, Secretary, Treasurer, Registrar, and Recorder.

On the second and third floors are recitation rooms and on the fourth floor are rooms fitted for use of the College literary societies.

THE COLLEGE CHAPEL.

The College Chapel, largely the gift of the late Mrs. A. E. Doyon of Madison as a memorial to her mother, Mrs. J. S. Herrick, was erected in 1892, and is wholly devoted to the religious services of the College. It is built of Wauwatosa limestone and is surmounted by a clock tower. On the first floor is the large auditorium capable of seating 500 persons for the daily chapel and the Sunday Vesper services. There are two conference rooms adjoining, which can be opened into the main auditorium, and the President's private room. In the auditorium is a large two-manual pipe organ.

CARNEGIE LIBRARY.

The beautiful new library given to the College in 1904 by Mr. Andrew Carnegie, occupies a site on the east side of the campus, north of Memorial Hall. It is of cut Bedford stone and is practically fireproof, the stack-room being wholly so. The building is of the Renaissance style of architecture, 95 by 75 feet, with two stories and basement. On the main floor is the delivery-room, adjoining which are the metal stacks, accessible to the students for reference. On either side are reference and periodical rooms, with smaller side rooms for consultation and administrative purposes. In the basement are rooms for receiving and distributing books, for files of newspapers and periodicals, and for storage.

On the second floor are consultation rooms and a large reading room reserved for the use of the Senior class. The President's executive offices are on the second floor on the south side.

SCOVILLE HALL.

Scoville Hall, the gift of the late James W. Scoville of Oak Park, Ill., was built originally to accommodate the Beloit College Academy. It is a beautiful two-story brick building with heavy brown-stone trimmings and is located at the extreme southern end of the campus. There are two floors with high attic and deep basement; on the first floor are three recitation rooms for Rhetoric and Public Speaking, and a comfortable rest room for the young women. On the second floor is a large auditorium seating three hundred, which is used for musical recitals and other College purposes; there is a smaller auditorium adjoining, which can be opened into the larger, and a room used by the Music department. On the third floor are rooms for music and other purposes.

THE NORTH COLLEGE.

The North College is a three-story brick building with basement. Each of the three floors is used for recitation rooms; the basement has been fitted up recently for the College Center, an institution managed by the students and designed to be a center where all the college young men can come together in a social way. The rooms are attractively furnished and are supplied with magazines and periodicals.

PEARSONS HALL OF SCIENCE

The College is indebted to the generosity of Dr. D. K. Pearsons for its noble building for the physical sciences. The edifice is two stories in height, with roof-story and high basement, making substantially four stories. It has an east frontage of 136 feet, with north and south wings extending back 115 feet, and forming the sides of an open court. The inside walls are finished in brick, and slow-burning construction has been used throughout, thus greatly reducing the danger from fire. All the rooms are planned with reference to convenience, ventilation, and light. Gas and water are carried wherever they are needed. On the first floor is an auditorium for lectures and meetings of various sorts, with seats for three hundred persons.

The department of Physics occupies the first floor and the basement on the south side. A lecture-room, a large general laboratory, an apparatus room, a research laboratory, and an office are located on the first floor. A large electrical and magnetic laboratory, a dynamo room and shop, and a photometric and photographic dark-room are situated in the basement. The equipment of the department has recently been materially increased by the addition of a considerable amount of new apparatus designed for general laboratory purposes, and also by a complete set of tools and machinery for the laboratory shop. The apparatus room is well stocked with modern apparatus for lecture and general laboratory use, including electrical and optical instruments of precision.

The electrical and magnetic laboratory is equipped with a number of alternating- and direct-current motors and generators, together with transformers and other accessory apparatus. The electrical equipment also includes suitable storage battery capacity.

The laboratory shop is equipped with a modern screw-cutting lathe, tools for both metal and wood working, wood and iron benches, a power air-compressor, and other necessary appliances. A fully equipped long-distance wireless telegraph station has recently been established at the laboratory, thus affording special facilities for illustrating modern electrical progress.

On the first floor a room has been fitted up for Mechanical Drawing and Surveying. It has drawing tables and boards and a filing cabinet, and is lighted with drop incandescent lights. The Surveying outfit contains three engineer's transits, an engineer's compass, a Burt solar compass, a Saegmiller solar compass, Y-level, plane-table, planimeter, tapes, tape-testing apparatus, stadia-rods, leveling-rods, sextant and horizon, and various minor instruments for field work and plotting.

The department of Chemistry is located in the north wing and occupies two floors and the basement. On the first floor are the lecture-room, balance-room, quantitative laboratory, a smaller laboratory, store-room, and the professor's private room.

On the lower floor are a large laboratory for qualitative analysis, a second laboratory for organic and special work, a sulfuretted hydrogen room, a dark room, and room for the instructor. In the basement are large store-rooms.

All of the laboratories are fitted with tables and appliances of the best construction. The lower laboratories have recently been refitted at considerable expense and provided with flues exhausted by motor fan; the capacity of the fan is such that the air of the whole lower floor is changed every three minutes. A second electric exhaust fan is placed in the flues leading from the laboratory on the first floor.

The equipment of the department includes lecture apparatus for illustrating special topics. Also many special pieces of apparatus are provided for the use of students in laboratory work. There are four fine analytical balances and four suited for the advanced work in General Chemistry. A large stock of chemicals and duplicate apparatus is carried so that each student is well supplied for individual work both in the earlier classes and the later more difficult analytical and research work.

The department of Geology occupies the second floor and the roof story of the south wing. The department is a depository for all maps, documents and specimens issued by the United States Geological Survey. The library is unusually complete and well equipped with reference books needed for advanced study.

There are large collections of rocks and minerals illustrating the different types of structure and texture needed for laboratory purposes. Another large series represents the different geological periods in various parts of the globe. The College owns an exceptionally complete series of fossils, including all that are necessary for a thorough understanding of the past life of the globe. Each period of geological history is well illustrated by the characteristic fossil forms. The department is equipped with a lantern and numerous lantern slides for illustrating different geological features and phenomena.

The departments of Botany and Zoology occupy the second and third floors of the north wing and central portion of Pearsons Hall. The laboratory for general Biology and Zoology is admirably lighted by east and west windows and skylight overhead. The room is adequately equipped to accommodate fifty students at one time; it has a large aquarium table with running water, arranged for keeping living material under normal conditions. In the north wing on the second floor are situated the laboratories for Histology, Embryology, and Plant Morphology. The Plant Morphology laboratory is equipped to accommodate thirty students; the Histology and Embryology laboratory has provision for twenty. The laboratories are equipped with forty-five compound microscopes for advanced work, and dissecting microscopes for each student. For work in Histology the laboratory is equipped with microtomes as follows: a Bausch and Lomb Minot rotary microtome, a Zimmerman rotary microtome, two Thoma model microtomes, and hand microtomes. The lecture-room is equipped with a Bausch and Lomb Projection Lantern for both lantern slides and microscopic slide projection; a set of Dodel-Port charts for plant morphology, and a number of the Leuckart charts for animal morphology. For work in Embryology and Anatomy, there are two complete sets of models for the embryology of the frog and chick, and a set of skeletons illustrative of the vertebrate animals. Illustrative material of the different groups of animals is also provided for the work in Zoology.

The Psychological laboratory is located on the third floor, south side. Through the gift of the Trustees of the William E. Hale fund, devoted to the advancement of scientific research, the College enjoys the use of considerable apparatus for psychological study. This apparatus incudes a Hipp chronoscope, Mosso ergograph, control drop, sphygmograph, pneumograph, Marey tambours, electric time-markers, kymograph and accessories. The above material has been added to by the purchase and manufacture of much material for the study of the senses, all of which is available for demonstration and for elementary practice in the courses in Experimental Psychology.

SMITH OBSERVATORY.

Smith Observatory, erected by the late Mrs. J. S. Herrick, in memory of her brother, is a separate stone structure, with dome tower. It is well equipped for practical astronomical work, being provided with the following apparatus: Clark equatorial telescope of 9.5 inches aperture, mounted by Warner and Swasey, provided with accessories for micro-metrical and solar work; Lyman transit telescope of 2.5 inches aperture, rebuilt by William Gaertner & Co. in 1900; Thomas mean-time clock; Howard sidereal clock; Negus chronometer; Fauth & Co. chronograph, electrically connected with sidereal clock and transit telescope; sextant; levels, etc.

There is a well-selected astronomical library containing files of most of the standard American and foreign astronomical journals, as well as the usual standard texts and references. There are also complete outfits for projection work, including more than four hundred lantern slides, among which are the most celebrated views of celestial objects. The observatory will be open to visitors by previous arrangement with the director.

THE SMITH GYMNASIUM.

The Smith Gymnasium for men, which is one of the most attractive buildings on the campus, was erected in 1904-5 by the late E. D. Smith of Menasha, Wis. It is built of vitrified brick, and is thoroughly adequate in its proportions and appointments for systematic physical training. The plans for the building were matured after a thorough study of some of the best gymnasium buildings in the country.

In the basement are a base-ball cage, hand-ball courts, bowling alleys and rooms for fencing and boxing. On the first floor is the main locker-room, fitted with 200 individual lockers with the most improved devices. This room is connected with the main bath-room, which is provided with shower and tub-baths and lavatory. Opening out of this room is a special dressing-room for visiting athletic teams. On the first floor also are the reception and examining rooms and the director's room. On the second floor is the main gymnasium, 105 by 51 feet; this is completely fitted with all modern forms of apparatus for heavy gymnastics and special work. There has recently been installed a large amount of new apparatus, including a twine batting cage. On the third floor is a running track and visitors' gallery.

MEMORIAL HALL.

Memorial Hall, built in commemoration of the graduates and students of Beloit College who served in the Civil War, is a high stone structure containing two floors and a basement. The building is covered with a slate roof and is semi-fireproof. On the first floor is the valuable Logan Archæological Museum, systematically arranged; the second floor has been fitted up with new cases the present year to receive the recent large accessions to the collections.

THE ART HALL.

The Art Hall, formerly the College Chapel, is a two-story brick building located immediately south from the Middle College. On the first floor are two large rooms: one is devoted to the Fisher collections described more fully under Art; the other is used by the curator of the art collection for administration of the collections. The Hall also contains a large and valuable art library. On the second floor are the general collections of art suitably arranged.

THE PRESIDENT'S HOUSE.

The President's House was built by the Trustees in 1910. It is a handsome building of the Colonial style of architecture and is located on college grounds adjoining the campus.

DORMITORIES.

CHAPIN HALL

Chapin Hall, the gift of Dr. D. K. Pearsons and named by him in honor of President Chapin, has been in use since September, 1891, and accommodates about fifty-five young men. It has hard-wood floors, furnished reception room, parlor and bath-rooms. The building is heated by steam and lighted by electricity. All rooms are furnished with bedstead, spring bed, hair mattress, pillows, bureau with mirror, study table, chairs, bookshelves and window shades. The occupant will furnish bedding, towels, rugs, and such conveniences and decorations as may be desired.

The management of Chapin Hall is under the charge of the general secretary of the college. An association composed of all the men of the Hall, both Faculty and students, seeks by social gatherings and athletic activities to promote a spirit of helpful comradeship and to increase the significance of Chapin Hall in the life of the college.

In choice of rooms preference is given to previous occupants of the building in order of application, except that an occupant of any room may retain the room if he so desires, unless he is excluded for cause. After the close of the college year all applications, whether from previous occupants or others, will take their turn as received. All reservations, to be valid, must be accompanied by a payment of $5.00. This amount will be applied upon the rental at the opening of the semester. Notice of withdrawal of reservation must be given to the Registrar before September 1st; otherwise, if the room is not taken by the person making the reservation, the fee is forfeited.

Correspondence as to accommodations should be addressed as early as possible to the Registrar, Beloit College, Beloit, Wisconsin.

EMERSON HALL

This building, also given by Dr. Pearsons to the College, is a beautiful dormitory for women, named by him Emerson Hall, in honor of Professor Joseph Emerson. The Hall was planned after a careful study of similar buildings elsewhere, and is unsurpassed in comfort, taste, and convenience. There are accommodations for about forty-five women.

The rooms are furnished with study tables, chairs, bookcases, college cots, hair mattresses and pillows, and bureaus with mirrors. Linen, bedding, rugs, and such other conveniences and decorations as may be desired are furnished by the occupants.

The Women's Gymnasium occupies a large, well-ventilated room on the third floor, and is thoroughly equipped with modern apparatus. On the same floor, in connection with the gymnasium, are bath and dressing-rooms.

The building is heated with hot water and lighted throughout with electricity, which all students use. The Dean of Women makes her home in the building.

JUNIOR HOUSE

Junior House furnishes accommodations for about twenty young women of the Junior Class, for whose use the building has been set apart. This opportunity for an independent class life is greatly valued by the young women of the successive classes. The building is heated with hot water and lighted by electricity.

STOWELL COTTAGE.

Stowell Cottage, the gift of Mrs. Charles B. Stowell, of Hudson, Mich., has been completely remodelled and its accommodations increased. The rooms have been newly furnished, and a hot-water heating plant has been installed; like all the other dormitories, the Cottage is lighted by electricity.

The building furnishes excellent accommodation for twenty young women of the Freshman Class; it is under the supervision of a competent chaperone.

THE JULIA SALMON COTTAGE

The Julia Salmon Cottage, named in honor of the late Miss Julia Salmon, is a wooden building to the south of the President's house. It has been remodelled and fitted up to accommodate eight young women of the Freshman Class. It also is under the supervision of a competent chaperone who makes her home with the young women.

Rooms in the women's dormitories are assigned early in June, students already in attendance having preference. After that time rooms will be assigned in order of application, by the Registrar, to whom all correspondence in regard to rooms should be addressed. A deposit of $10.00 must be made when rooms are reserved. This amount will apply toward payment of bills in the fall, or will be returned if the Registrar is notified *before August first* that the applicant desires to cancel her reservation.

THE HEATING PLANT.

The heating plant is a brick building located west of the Gymnasium. It contains three large return water tube boilers with down-draft grates, which furnish steam for heating all of the buildings on the campus. The system used is the Paul vacuum system. At present plans are being prepared to enlarge the plant by the installation of electrical apparatus for lighting and power purposes.

COLLEGE FIELD.

During the summer of 1911, the athletic field was enlarged by the addition of a tract of land adjoining it on the east. College Field, a large level piece of ground with fine turf surface, contains a football gridiron and new baseball diamond. It is provided with a well-laid quarter-mile running track, a gift from the class of 1911 and the Trustees. There is space for 220 yards of straight track and accommodations for field contests. The grandstand and bleachers have a seating capacity of about four hundred.

Administrative.

REGISTRATION AND ENTRANCE.

On entering college, and at the beginning of each semester, every student is required to register at the hour and place stated in the Calendar. Students not registering at the specified time are required to pay a registration fee of one dollar.

After each vacation recess, registration is counted as the first exercise. Failure to register on time is counted as five ordinary absences.

Students applying for admission to college from any preparatory school must present before registration a certificate of admission, signed by the principal.

Advanced credit will be given by the College for work done in secondary schools only upon examination, unless the school from which the record is presented has been inspected by the Faculty of the College, and its courses approved by them as entitled to such credit. Graduates of normal schools are admitted with advanced credit.

Students entering college from other institutions of collegiate grade, and desiring advanced standing, must present an honorable dismissal, together with full records, from the college or university in which they have studied.

For full details of requirements for entrance to College see under Admission.

ADVISERS.

Each Freshman on entering college is assigned to some member of the Faculty who becomes his adviser during

the first two years of the college course, assisting him in selecting his studies, and, in a general way, aiding him in working out the problems of his college life and work. During the last two years, the professor under whom he takes his Major acts as his adviser.

ELECTION OF STUDIES.

Students are required to take at least fifteen hours of work in each semester of the college course. A larger number of hours may be elected upon recommendation of the adviser. A student may also be permitted to elect less than fifteen hours, for specific cause, by vote of the Faculty; but under no circumstances will a student be allowed to take less than twelve hours of work.

The words *Year Course,* appended to the title of a course in this catalogue, indicate that election of the course must be made for the entire year. In some cases, the student may drop the course at the end of the First Semester, as provided for in the Administrative Rules.

The election of studies for the First Semester by Freshmen and others entering College for the first time will take place on the Tuesday preceding the opening of the College in the fall. The hours will be from 9:00 A.M. to 4:00 P.M.

Except for new students, the regular election of studies for each semester will take place at the times appointed in the College Calendar.

For every change in elections after the above dates a fee is charged: if the change is made before the recitations of the new semester have begun, the fee is fifty cents; after the beginning of recitations it is one dollar.

Before presenting election cards to the Recorder, Freshmen and Sophomores must secure the signature of the class adviser, in approval of their elections. At the spring election in Sophomore year, for the first semester of Junior year, the student must signify his choice of a Major, and must secure the signature of the head of the department in which the Major subject is taken, and thereafter all elections must be approved by such Major instructor.

No student will be admitted to classes in any course until his class card, properly signed by the Recorder, has been presented to the instructor in that course.

SCHOLARSHIP AND CREDITS.

The student's work at Beloit College is estimated in terms of hours and credits. An hour, in this connection, means class-work taken one hour per week for a semester. A credit is a measure of the quality of the work performed.

A certain number of semester-hours of work must be completed each year in order to secure advancement to a higher class. Students will be classified as Freshmen until they have completed twenty-one semester-hours; as Sophomores until they have completed fifty-four hours, and as Juniors until they have completed eighty-four hours. One hundred and twenty semester-hours are required for graduation.

A certain number of credits must also be secured before a student can pass from a lower into a higher class. Eight credits are required during Freshman year, eight credits during Sophomore year, ten credits during Junior year and ten credits during Senior year. An average standing of C+ is required for graduation. Failure to secure three-fourths of the required number of credits during any given year of the course prevents the student from passing into the next higher class, except by faculty permission. Failure to secure the ten credits required during Senior year or to have maintained an average of C+ during the course debars the student from graduation.

According to the system of grades now in use by the College, AA indicates work of an extraordinary quality; A excellent work; B good work; C fair work; D poor work; F a failure with privilege of re-examination, and FF a failure without such privilege. A grade of FF received in any study during Freshman and Sophomore years requires repetition of the course the succeeding year. Credits are estimated as follows: a grade of AA secures one credit for each semester-hour completed; A eight-tenths of a credit; B five-tenths of a credit; C two-tenths of a credit; D passes the student but gives no credit. A plus or a minus accompanying a grade adds or subtracts one-tenth of a credit. It will be seen that in order to maintain an average standing of C+ for graduation it is necessary for the student to receive at least 36 credits on the basis of 120 hours for the course. For graduation honors based on credits earned see below under Degrees.

(For the classes of 1912 and 1913, extension of credits, conditions for graduation and assignment of graduation honors will be on the basis of the statements of the College catalogue for 1910-11.)

EXAMINATIONS AND REPORTS.

Final examinations are given in all courses at the end of each semester. For the Freshman class, in addition to the regular semester examination, mid-semester examinations are held, and reports on the same are sent to the parents. Detailed reports of the standing of Freshmen and Sophomores are sent to their parents at the close of each semester; summary reports stating the total number of hours and credits made by the student during the semester are given out to the Junior and Senior classes as soon as possible after the close of each semester.

GRADUATION IN LESS THAN FOUR YEARS

GRADUATION IN THREE YEARS

A student who presents on entrance to college advanced credits equivalent to twelve semester-hours, may be allowed to take eighteen hours each semester, in order to obtain a degree in three years. Written notice of intention to complete the college course in three years must be given at the beginning of the second year. Permission to take the extra hours, and to graduate in three years, may be withdrawn at any time, if the student's work is not satisfactory.

GRADUATION IN THREE AND ONE-HALF YEARS

A student may complete the college course in three and one-half years by taking eighteen hours of work in each of five semesters. Permission to do this will be conditioned on his maintaining an average grade of B. Written notice of intention to complete the course in three and one-half years must be given at the beginning of the third year. On completion of the requisite number of hours the student may, on petition, obtain leave of absence until Commencement, at which time the degree will be conferred.

DEGREES.

The Bachelor's degree is conferred upon completion of a four years' course of study comprising not less than 120 semester-hours of work in which an average of at least C+ has been maintained.

The degree is conferred *cum laude* upon students who have maintained an average of B+; *magna cum laude* upon those who have maintained an average of A; *summa cum laude* upon those who have maintained an average of A+.

The degree of Bachelor of Arts is conferred upon students whose Major is in Group I or Group II (see Course of Study); the degree of Bachelor of Science upon those whose Major is in Group III.

STUDENT CO-OPERATIVE BOARDS.

There are three student co-operative Boards acting in an advisory capacity with the administration of the College.

THE STUDENT COUNCIL

The Student Council is composed of fourteen members, six young men being elected from the Senior class, four from the Junior class, two from the Sophomore class, and two from the Freshman class. The Council meets with the President and Dean of the College on call of the President or members of the Council itself. Questions relating to student welfare are frequently referred to it and recommendations are made to the student body and to the Faculty of the College for action.

THE WOMEN'S STUDENT GOVERNMENT ASSOCIATION

The Women's Student Government Association is made up of the young women of the College. The association is managed by a board of officers elected by the young women, which, under the supervision of the Dean of Women, controls the life of the students in the women's dormitories with all details of its discipline. It may through the Dean of Women refer to the Faculty of the College matters requiring Faculty action.

THE HONOR COMMITTEE.

All written examinations and tests are conducted under the Honor System. No officer of the College is present during an examination, but each student is required to write on his paper a pledge that he has neither given nor received any aid during the examination. The administration of the Honor System is in the hands of a student committee. By the constitution of the system it is the duty of every student to report to the committee all evidence of dishonesty in examination that he knows of by observation. If after investigating such evidence the committee finds a student guilty of dishonesty, it reports the case to the Faculty through the Dean, with a recommendation for discipline.

The application of the Honor System has recently been extended to cover the observance of the rules of the College Library.

ADMISSION OF WOMEN TO BELOIT COLLEGE

By action of the Board of Trustees, the number of young women who will be admitted to the College each year is limited to the number which can be accommodated in the women's dormitories. The Trustees and the Faculty believe that the interests of the College and of the young women in attendance are best conserved when the young women are in College dormitories under the immediate supervision of a competent Dean of Women. It is impossible to maintain this supervision when women students are allowed to room in private houses. This limitation, however, does not apply to those who reside with parents or relatives in the city of Beloit.

The regulation will be strictly adhered to, and no deviation from it will be allowed unless exceptional circumstances seem to warrant the Faculty in suspending the rule in individual cases.

The women's dormitories accommodate about eighty-five students. This enables the College under the new regulation to admit about thirty young women each year into the Freshman class. The names of applicants who do not secure admission in any given year will be placed on the "Waiting List", if desired, and will be given accommodations the following year. This desire, however, must be distinctly communicated to the Registrar, and a deposit of ten dollars made with the College Treasurer to insure the applicant a place on the "Waiting List". Remittances should be made payable to "The Treasurer of Beloit College" and sent to the Registrar when the application is made. This Registration Fee will be refunded if notice is given *before September first* that accommodations applied for are not desired. A special circular giving details as to rooms and board in the dormitories may be had upon application to the Registrar of the College.

General Information.

WORSHIP.

There is a united religious service each week-day, except Saturday, in the College Chapel.

On Sunday afternoon the students are required to attend worship at the College Vesper service in the Chapel. Weekly Y. M. C. A. and Y. W. C. A. meetings and a mid-week College Conference are held; also classes for the study of missions. The attendance of the students is welcomed and their assistance is valued by the churches and Sunday Schools of the city; many have been useful workers in outlying Sunday Schools.

EXTENSION LECTURES.

A majority of the members of the Faculty offer extension lectures upon subjects connected with their departmental work. The subjects selected are not of a technical character, but are of common interest, and have been prepared for high schools and general audiences. Principals of high schools or others who wish lectures are invited to make application to the Registrar of the College, who will send the list of subjects and lecturers, and will furnish any other information desired.

A small fee is charged for the lectures, in addition to the expenses of the lecturer.

THE BELOIT COLLEGE LECTURES.

The Faculty instituted during the year 1908-9 a course of public lectures, on topics connected with the work of the College. These lectures are popular in character, yet representative of the best scholarship of the day; they are intended as an extension of the work of the College in the community. The lectures of each year illustrate the work of a number of departments of instruction; the plan provides for the presentation in this way, during a series of years, of all phases of modern study. The price of tickets is nominal, as it is the purpose of the course to reach as large an audience as possible.

EXCHANGE PROFESSORSHIPS.

By an arrangement with Harvard University an exchange professor who will offer special courses of lectures, is to be assigned to Beloit College from year to year. These lectures are given in connection with the College work and will form an integral part of the regular curriculum for the department concerned. In addition the lecturer will offer a course of lectures of a more general character open to all students and friends of the College.

THE PORTER MISSIONARY LECTURES.

A fund has been established in the College, providing for the delivery and publication of lectures upon missions. According to the terms of endowment, "it is desired that these lectures be delivered biennially, upon themes covering the wide range of missionary history or biography, or of the conquests to our larger knowledge of mankind by missionary travel or research, or of the moral triumphs of the Gospel in its appeals to men."

The first course of lectures under the endowment was given by the late Rev. Edward A. Lawrence, D.D., of Baltimore, in April, 1892; the second by Rev. Arthur H.

Smith, D.D., '67, of Pang Chuang, China, in March, 1894; the third by Professor William Douglas Mackenzie, D.D., formerly of Edinburgh, now President of Hartford Theological Seminary, in May, 1897; the fourth by Rev. James D. Eaton, D.D., '69, of Chihuahua, Mexico, in May, 1900; the fifth by Robert E. Speer, M.A., of New York, in October, 1901; the sixth by the late Rev. Charles Cuthbert Hall, D.D., LL.D., of New York, President of Union Theological Seminary, in May, 1904; the seventh by Rev. Lyman Abbott, D.D., LL.D., of New York, in January, 1906; the eighth by Robert E. Speer, M.A., of New York, in April, 1907; the ninth by Rev. Arthur Judson Brown, D.D., of New York, in May, 1909; and the tenth by Rev. Robert A. Hume, D.D., Ahmednagar, India, in January, 1911.

The next course will be given in 1912-13 by Rev. Harlan Page Beach, M.A., Professor of the Theory and Practice of Missions, Yale University, New Haven, Conn.

THE GEORGE GREINER SCHNEIDER LECTURESHIP.

A fund has been provided by Mrs. Marie Greiner to found a lectureship in memory of George Greiner Schneider, a member of the class of 1905. The first three courses of lectures on this foundation were delivered by Rev. David Beaton, M.A., of Chicago. The subject of the first, in March, 1906, was "A Spiritual Interpretation of Life"; that of the second, in February, 1907, "The Scottish Spirit and Its Teachings"; that of the third, in February, 1908, "The West and Its Problems". The fourth was given in March, 1910, by Mr. Hamilton Holt of New York, on the subject, "International Peace". The fifth course was given in November, 1911, by Dr. Caspar Rene Gregory of Leipzig, on "Student Life in German Universities", on "Political and Social Conditions in Germany", and on "The Search for Biblical Manuscripts on Mt. Sinai".

GRADUATE STUDY.

Opportunity for advanced work in certain departments of the College is given to graduates of Beloit College and other approved institutions; this work may or may not lead to the degree of Master of Arts. It is intended that this degree shall be granted only for advanced liberal study; work of a professional nature will not be accepted for the degree. At least fifteen hours must have been taken under the direction of a member of the Faculty of the College.

Courses may be arranged for by application to the Committee on Graduate Study.

MUSIC.

Music is an important element in the religious, the intellectual, and the social life of the College. The music at the daily chapel service and at the Vesper service on Sunday is led by the College choir, supported by a large and excellent two-manual pipe-organ. The College Library contains a valuable collection of musical literature, to which important additions are made each year. In addition to courses described in the Course of Study, mention should be made of facilities afforded students for the study of music through the chapel choir, the organizations for the practice of oratorio and orchestral music, and the glee clubs. For those sufficiently advanced, opportunity will be given for public performance in concerts and on other occasions where music is introduced. The Beloit College Musical Association maintains a large chorus for the practice of the higher forms of choral music.

FINE ARTS.

The College is fortunate in the possession of Art Collections of unusual richness and variety which are placed in the Art Hall, under the supervision of Mrs. Joseph Emerson as Curator.

The Fisher Collection of Greek casts is of great value, not only to students of Greek art and life, but for the general culture of the college and the community. It consists of one hundred and twelve casts of unique Greek sculpture, prepared and presented by Mr. Lucius G. Fisher, Jr., in memory of his honored father, long a trustee of the college. Carefully selected by eminent archæologists, and cast in moulds from which these are the first impressions, it furnishes original examples of the progress of Greek sculpture from its first rude but grand beginning to the nobility of the fine Greek art of Pheidias, the oriental grace of Praxiteles, and the colossal Roman strength of later days. It occupies the entire lower hall of the Art Gallery, and is a treasure not only unique, but of inestimable value for illustration, instruction, and inspiration. In addition to the Greek casts, there are three hundred pieces of statuary and reliefs, ancient, mediæval, and modern, making a total of over four hundred casts.

The oil paintings, water-colors, and pastels, from the brushes of eminent and worthy American and European artists, are over one hundred in number and there are more than one hundred framed etchings, engravings, autotypes, and photographs. The additions to the Art-Collections during 1911 were of unusual value and interest; notable among them are four oil portraits of distinguished alumni of the College, viz: those of James W. Strong, 1856, President Emeritus of Carleton College; Thomas C. Chamberlin, 1866, former President of the University of Wisconsin; Col. J. D. Davis, 1866, founder, with Neesima, of Doshisha University, Kyoto, Japan; Henry Clay Simmons, 1869, founder and President of Fargo College.

Other recent acquisitions include an oil landscape of scenery near Beloit, the gift of the artist, Mr. Richard Peck; a beautiful marine water color on the California coast, painted and presented by Mrs. Ira M. Buell; a California mountain scene purchased from Mr. Coons; a large and beautiful pastel-landscape, and two marbles, "The Friends", by B. Vecchi, and "After the Party", from the collection of Mrs. Theron Dixon, whose husband was a graduate of the College in 1868. This painting and the marbles, with their verd-antique pedestals, are an attractive addition to the collections.

Two specimens of polished Wisconsin mahogany granite are from the American Granite Company of Milwaukee. From the collection of Hon. S. T. Merrill, his daughter, Miss Helen Merrill, has given a valuable megalethoscope and twelve large photographs of foreign cities and scenes. One hundred books and pamphlets have been added to the library, making a total of 2,600 volumes. Among them are Sterling's "Annals of the Artists of Spain", in four large illustrated volumes; a beautifully illustrated History of Florence, and a volume of rare engravings from Raphael's Transfiguration, containing "seventeen heads from the painting, traced from the picture and finished of the same size"; a copy of the Transfiguration, recognized as the foremost work of art in the domain of painting, and of the portrait of Raphael in the Vatican, making a remarkable and valuable collection of nineteen large "proof" engravings from the burin of the eminent French engraver, J. Gaubaud. There is also "A discriminating analysis of the painting, translated from the French into Spanish and thence into English, with remarks and observations by distinguished artists and writers who have written upon this celebrated picture". This work, published in London in 1817, and now out of print, is the generous gift of Mrs. Amanda Brace Crandall, a sister of the Curator.

The engravings and photographs, representing the art, scenery, and literature of all countries, number over 18,000. The cataloguing of these, and of references for reading upon them, is slowly progressing.

A fund of $500, the income of which is to be given annually for the best essay upon a topic related to the Fine Arts, has been given by a lady who withholds her name. The conditions of the award will be found under The Fine Arts Prize.

THE LIBRARY

The library is open, in charge of attendants, from 7:40 to 11:40 A.M., and from 1 to 6, and 7 to 9 P.M., each weekday.

The present number of books is about 48,000 bound volumes and 26,000 pamphlets. Between 2,000 and 2,500 volumes are added each year by gift or purchase. These figures include the United States public documents, for which the library is a depository. The income from the following funds is devoted to the purchase of books:

Academy Library Fund (Pedagogy)	$ 500
Bushnell Fund (Astronomy and Mathematics)	500
Colton Fund (Economics)	5,000
Davis Fund (English Literature)	500
Dunbar Fund (Chemistry)	100
Knowlton Fund (General)	500
Mayher Fund (Chemistry)	1,000
Ryland Fund (General)	4,000
Henry D. Smith Fund (Public Speaking)	1,000
Talcott Fund (Science)	5,150
Total	$18,250

The income from these funds is supplemented by appropriations from the College treasury, large annual gifts by Mr. Horace White, and occasional gifts from many generous friends of the College.

Particular care is given to enabling the students to use the library to the best advantage. The books are arranged according to the Dewey decimal classification and catalogued by card-index. All students have free access to the shelves, and may draw books from the library under the usual restrictions. Books that are in constant use by the students in the several classes are placed on reserve shelves where they are equally accessible to all concerned. Poole's Index facilitates the use of the bound periodicals, of which the library contains several thousand volumes. The library is well supplied with the standard works of reference. In the reading-room are the current numbers of the leading literary and scientific journals, with the best of the magazines and weeklies and several dailies. The number of periodicals received is now 226, many of which are the gift of the Archæan Union. The general equipment of the building is such as to make it a convenient and attractive place for study.

A separate departmental library containing many of the books relating to the natural sciences is kept in Science Hall.

The resources of the Beloit Public Library, which contains about 12,000 volumes, forms a valuable supplement to those of the College Library, especially in the field of fiction and popular literature. They are freely accessible to College students, who make large use of them.

PHYSICAL EDUCATION.

MEN.

A physical examination is required of all men upon entering college. All men in the Freshmen and Sophomore classes are required to take three hours a week of physical training. This is carried on under the supervision of the director, and must be completed before the beginning of the Junior year.

Regular classes are held in the gymnasium from 3:30 to 4:30 daily; also from 4:30 to 5:30 on Mondays, Wednesdays and Fridays. Special classes in boxing and wrestling are held on Mondays, Wednesdays, and Fridays, from 5:30 to 6:00 P.M.

Students are allowed to select forms of exercise other than regular gymnastic work, provided that upon examination they are found to be physically adapted for the work which they desire. Such substitute forms of exercise may consist in work with the various athletic teams, or in more special forms of exercises, such as boxing, fencing, and wrestling. Only one hour of credit is allowed for the work done in any given day.

WOMEN

In the department of physical education for women, three hours a week of gymnasium work are required of all Freshmen and Sophomores. There are also classes in æsthetic and folk-dancing open especially to Juniors and Seniors. Each student, at the beginning of her Freshman year, and again at the end, is given a physical examination. A third examination is made at the end of the Sophomore year.

A course in elementary physiology and hygiene, in connection with the gymnasium work, is required of all Freshmen.

The gymnastic curriculum includes free exercises, light and heavy apparatus work, drills of various kinds and games; also tennis and cross-country tramping.

The aim of the department is to raise the standard of health by toning up all the bodily functions, and developing and strengthening the muscles.

The suit worn in the gymnasium is pleated bloomers of dark blue, light weight serge, with white middy blouse. Special shoes can best be obtained in Beloit.

An athletic fee of five dollars is included among the incidental expenses collected from each student. In consideration of this, there is issued to each student a season ticket, admitting him free of charge to all home athletic contests held by the College.

All field and track athletics are under the immediate personal charge of the Director of the Gymnasium and Athletics.

The athletic organizations of the College are managed by the Athletic Board of Control, a board made up from the alumni, faculty, and students, securing to all athletic matters the highest efficiency combined with the greatest economy.

STUDENT EMPLOYMENT BUREAU.

Beloit College maintains an Employment Bureau to aid students who desire work. The bureau is under the direct supervision of a Faculty committee and is managed by a Secretary employed by the College. The management of the bureau is upon a thorough business basis, and it aims to keep in close touch with the leading manufacturing and other business firms of the city which give employment to students. A careful canvass of the city for employment is made at the opening of the year, and at such intervals during the year as seem advisable. Students who desire employment may register with the Secretary of the bureau, without expense; every effort is made to secure the employment which is best adapted to individual needs.

Beloit is a manufacturing city and its citizens are interested in aiding students who desire employment. For the past three years about 50 per cent of the students at Beloit have secured employment which has enabled them to pay a part or the whole of their expenses. The canvass of the city is made early in the summer, in order that definite information regarding this matter may be given to entering students during the summer months. This information, which is available after the first of July, will be gladly furnished to prospective students on application to the College Registrar.

CAMPUS BOOK STORE.

The Campus book store, in charge of a graduate of the institution, is located in the basement of North College. It furnishes books, stationery, athletic goods and other college perquisites to students at reasonable prices.

THE BELOIT CENTER.

The Beloit Center which has been recently established, seeks to promote fellowship and develop and unify the student life of the College. In order that its purposes may be most successfully met, rooms where all students can come together have been provided in North College and fitted up in an attractive manner. The management of the Center is wholly under the direction of the students.

PHI BETA KAPPA.

In June, 1911, the Beta of Wisconsin Chapter of the United Chapters of the Phi Beta Kappa society was established at Beloit. This society is made up from those of the highest scholarship in each graduating class; out of the first fifteen per cent of the Senior class as shown by the Recorder's records not more than ten per cent may be elected to the society. A public address is given before the society during Commencement week.

LITERARY INTERESTS.

The Archæan Union, an organization of which every student is a member, has general oversight of all the literary interests of the College. These include debating, oratory, the publication of a weekly paper, and the maintenance of a reading-room. The Union is supported by a small fee, included among the incidental expenses of each student, and is governed by the student body, with the aid of a Board of Control, in which students form a majority of two-thirds.

The College holds annually three intercollegiate debates: a Freshman debate with Carleton College; a Sophomore debate with Albion College; and a debate open to Juniors and Seniors, with Knox College. In addition to these, there is an annual debate for a silver cup, known as the Archæan Cup Debate, between the two literary societies named below.

There are in the College two voluntary literary societies, the Delian and Cliosophic, for men, and one, the Aristonian Society, for women, which hold weekly meetings for practice in debate and other literary exercises. Rooms are set apart for their use in Middle College.

There is held each year a competitive contest in oratory, known as the Home Contest. The two successful competitors in this contest represent the College in the State Oratorical Contest.

The reading room of the Archæan Union is in the College Library. It is liberally supplied with newspapers and literary periodicals of all classes.

The College weekly paper, The Round Table, is now in its fifty-eighth year; it offers an excellent opportunity for training in journalistic work, which is open to all students, as the editorial positions are filled by competition.

The Beloit Alumnus is under the editorial management of alumni appointed by the Wisconsin Alumni Association. It is a bi-monthly publication containing news from the alumni and discusses questions of wide College interest.

The English Club is an organization of students for the study of topics connected with English literature. All students of the College are eligible for membership. Ten meetings are held each year. In the year 1911-1912 the club made a study of modern drama; at each meeting a certain act of some play significant in the development of this drama was presented informally.

A Civic Club, a Philosophical Club, a Science Journal Club, and a Chemistry Club are maintained by the students in the departments concerned.

The Shakespeare Society devotes itself to the study and representation of the plays of Shakespeare. Its membership is open, on a competitive basis, to all women students; three-fourths of the members are chosen for excellence in acting, as shown in a contest held early in the year; the other fourth are appointed for excellence in the work of the course in Shakespeare. The Society gives an out-of-door performance of one of Shakespeare's plays in the spring of each year; the play presented in 1911 was: "Much Ado About Nothing".

THE COLLEGE MUSEUMS.

For nearly a half century the Library and Museums embodying the material equipment of the College were assembled in a single building, Memorial Hall, but in 1893 through the munificence of Mr. Frank G. Logan of Chicago the College Museums were placed upon a separate foundation and under his constant patronage have expanded to meet the increasing demands of the newer life of the institution.

THE LOGAN MUSEUM OF ARCHAEOLOGY.

The Archæological collections of the College, as newly arranged, fill all available space in Memorial Hall. The collection of stone artifacts, one of the largest in America, numbering over one hundred thousand specimens, contains material from all parts of the world and is pre-eminent in number and variety of ground stone axes, ground celts, chipped flints, and arrow points; there are over a thousand copper implements illustrating the use of this metal by prehistoric man. The collections of metates, Mexican and Indian pottery and basketry, Indian beadwork, weapons, and utensils are of exceptional interest and value. Ornaments, weapons, rude utensils of barbaric races in both hemispheres illustrate the modes of life of primitive peoples.

THE GEOLOGICAL MUSEUM.

Several thousand specimens of rock and minerals, illustrative material for Geological and allied study, fill two floors in Science Hall and are being rearranged for study and display. These, collected originally for the Columbian Exposition in Chicago, have been obtained from all parts of the world, notably from England, Germany, Russia, Sweden, and Japan. A collection of over a thousand fossils from the Wisconsin Geological Survey affords material for the study of local Geology. Fossil collections aggregating a thousand species, including about three hundred species of ammonites, cover the field of European

Geology. A large collection of carboniferous fossils from Illinois illustrate the flora of that interesting period.

The recent accession of two large collections from the Cenozoic formations of California give unique distinction to this Museum as being the only adequate representation of these forms of recent life that have been taken from that area.

The Rivers collection of over a hundred thousand specimens of marine forms is of special value for comparison with living types. Of still greater interest is the collection of remains of extinct mammal and bird life from the asphalt beds of California. These represent the whole range of mammal and bird life coincident with the presence of elephant and mastodon on this part of the continent. In this collection are over four thousand specimens including elephant, sloth, bison, lion, sabre-tooth tiger, wolf, and a wide range of bird forms.

These Museums are open to the public every day in term-time at convenient hours.

SCHOLARSHIPS AND BENEFICIARY FUNDS.

The College has at its disposal funds aggregating more than one hundred thousand dollars, the income from which is for the aid of those who are unable to pursue a college course without assistance. Some of these funds have been donated under particular conditions; others are not so restricted but can be drawn upon for the tuition of any person who is absolutely in need of such assistance for his college education. In awarding the income from these funds preference is given to students of high character and good scholarship, and who are earning at least a portion of their own support; whose habits are economical and who have no delinquency in any subject.

Scholarships are granted for one semester, and they may be renewed upon certain conditions. Application must be made on blanks that can be secured from the Registrar and must be in the hands of the Scholarship Committee of the Faculty by June 1st for the first semester and by January 15th for the second semester of each year.

A limited number of applicants may arrange for scholarship aid before entering College. Application must be made to the Registrar before the opening of College, and blanks for such application can be obtained from him.

The following are the funds from which awards are made:

THE BACON FUND, $36,000, established by Edward P. Bacon, Esq., of Milwaukee, the income of which is divided into seven fellowships; four in the College, and three for graduates pursuing a course of Theological study. One young man from each Freshman class is appointed to receive the benefit of a Bacon fellowship, the selection being from among those who are especially dependent on their own exertions in securing an education, and are maintaining an excellent record in scholarship. At the close of the Senior year one is similarly chosen to receive a fellowship for a theological course.

THE EMERSON FUND, $24,832.63, bequeathed by Rev. Joseph Emerson of Andover, Massachusetts, for the assistance of students preparing for the ministry.

THE MCCONNELL FUND, $20,844.92, bequeathed by Mr. Charles D. McConnell '98, of Richmond, Illinois.

The Dodge Fund, $9,000, bequeathed by Mr. Rufus Dodge of Beaver Dam, for aiding young women in their higher education.

The Elisha D. Smith Fund, $7,000, founded by Mr. Elisha D. Smith of Menasha.

The Education Fund, $4,000, for the assistance of students preparing for the ministry.

The Burr Fund, $3,500, orginally the Academy Endowment Fund, but transferred to the College and named in honor of A. W. Burr, for twenty-three years Principal of the Academy.

The Chandler Fund, $1,000, bequeathed by the Honorable W. H. Chandler of Burke.

The Bullock Memorial Fund, $1,000, given by Mrs. Bullock to found the M. C. Bullock Memorial Scholarship. The income from the above sum to be given annually to a student interested in applied science.

The University of Wisconsin offers annually a scholarship of $225 to one of the graduates of Beloit for graduate study at the University of Wisconsin; the incumbent is required to devote a portion of his time to assistance in the work of some department with which he is familiar.

EXPENSES.

REGULAR COLLEGE DUES

Uniform for all students except those occupying the Women's Dormitories. (Which see below).

Tuition, per semester	$25.00
Incidental Fee, per semester	12.50

All incidental fees except the laboratory fees and graduation fee as noted below.

Athletic Fee, per semester	2.50
This fee paid by all students gives admission to all home athletic events held under the management of the Beloit College Athletic Association.	
Total per semester	$40.00

SCIENCE LABORATORY FEES

Charged to cover the cost of materials used, are in addition to above regular dues, and vary according to the courses elected, as follows:

Astronomy, per semester				$1.50
Biology	I Semester	$5.00	II Semester	3.50
Botany	I Semester	5.00	II Semester	3.50
Chemistry, per semester				5.00
Geology, per semester				1.50
Mechanical Drawing, per semester				1.50
Physics, per semester				4.00
Surveying, per semester				1.50
Zoology	I Semester	5.00	II Semester	3.50

GRADUATION FEE

A fee of $9.00, payable by all Seniors, is charged in the second semester bill. This includes the cost of the diploma for the bachelor's degree.

CHARGES FOR WOMEN OCCUPYING DORMITORIES

The regular fixed charge uniform for all women in dormitories is $325.00 for the college year; one-half ($162.50) being payable in advance at the beginning of each semester. This charge covers tuition, board, and room rent, including light and heat; also the incidental and athletic fees. The science laboratory fees and the graduation fee are extra, the laboratory fees varying according to the courses taken as per list given above.

CHAPIN HALL RENTALS

Rent for rooms in the men's dormitory, Chapin Hall, is $54.00 per occupant for the year; one-half ($27.00) is payable in advance at the beginning of each semester. This rental includes both heat and light.

All of the above dues are to be paid at the Treasurer's office in Middle College. In order to avoid confusion, and for the convenience of those concerned, payments are to be made by *Freshmen* on *Registration Day for Freshmen* —the Tuesday at the opening of the First Semester. Members of the other classes must see that their bills are paid or provided for within one week from the opening day of each semester. *Additional charges* will accrue if bills are allowed to run unprovided for beyond that time.

Absence for imperative reasons and for a period of more than *one-third of a semester* will be considered the only sufficient ground for refunding a portion of bills already paid; this rebate will be made according to certain rules made by the Board of Trustees, upon an order signed by the Dean.

PRIZES

THE LEWIS PRIZE

The Lewis Prize was founded by Governor James T. Lewis, and is offered for excellence in special work in German.

THE DECLAMATION PRIZES

The class of 1901 has given the sum of $1,000, the income from which is used annually for two prizes offered to the Freshman Class for excellence in Declamation. The prizes are in memory of two members of the class of

1901, and are known as the Roger D. Orvis and the Mabel Rowntree Prizes. Four young men and four young women selected from the Freshman Class compete for these prizes at an exercise held during Commencement week.

THE EMERSON PRIZE

The Emerson Prize of $50.00 has been awarded at the end of the Sophomore year for special excellence in the Greek of the first two years in College, and extra work in the department of Greek; it is not offered in the current year.

THE RICE PRIZE

The Rice Prize of $30.00 is offered to the Junior class for excellence and improvement in extemporaneous speaking. An elective course (Public Speaking 7-8) is offered in this subject, and the prize is awarded at a contest during Commencement week among six speakers chosen for the excellence of their record during the year.

THE MISSIONARY PRIZE

A prize of $20.00 has been established by a graduate of the College, a foreign missionary; it is offered in alternate years for the best essay on some subject connected with missions, and for the highest excellence in an examination upon Greek or Latin not read in the regular college course.

In 1911-12 the prize will be awarded for the highest excellence in an essay.

THE LOGAN PRIZES

The F. G. Logan & Co. Prize, for the year 1911-12, will be divided into two parts. $25.00 is offered for the best archæological collection presented to the Logan Museum.

In order to compete for this prize the collection must be delivered to the Curator of the Museum on or before June 1st.

A prize of $25.00 will also be given for the best essay on Mound Groups about Beloit, to be accompanied by a map of the groups described. This essay must be handed in on June 1st.

THE HAY PRIZE

The Hay Prize in American Citizenship was founded in memory of Henry Hay of the class of 1894. This prize of $35.00 is offered to any member of the Senior class for the best essay on a subject pertaining to American Citizenship. The essays are to be from 3,000 to 5,000 words in length, to be accompanied by lists of books and articles consulted, and all citations to be referred to their proper source. Three type-written copies must be submitted for transmission to the judges by June 1st. The award will be made on the basis of both form and substance.

The subjects for the Hay Price for 1911-12 are:

Would public interests be subserved by the amendment or repeal of the Sherman Anti-trust Law?

The Wisconsin State Insurance Legislation of 1911.

Methods of Securing Greater Efficiency in Municipal Government.

The Relation of the Treasury Department of the Government of the United States to the Banking System, historically considered.

THE FINE ARTS PRIZE

A prize of $25.00 is offered for the best essay on a subject connected with the Fine Arts. The essays are to be from 3,000 to 5,000 words in length, and are to be handed in on June 1st.

The subjects for The Fine Arts Prize Essays for 1911-12 are:

1. Edwin A. Abbey; his Art as Illustrator, Painter and Mural Decorator.
2. St. George in Art.
3. The Civic Work in Sculpture of Daniel C. French as connected with various Public Buildings in the United States.
4. Decorative Art in the Cover Designs on Books and Periodicals.

THE HORACE WHITE PRIZE

A prize of $50.00 is offered by Horace White, LL.D., '53, for special excellence in Latin during the Sophomore year.

THE JACKSON J. BUSHNELL MATHEMATICAL PRIZE

A prize of $50.00 has been founded by S. Morgan Bushnell, '88, in memory of his father, Professor Jackson J. Bushnell. It is awarded annually for excellence in the mathematical work of the Freshman and Sophomore years.

THE ELIZABETH MCMOLLEN CHRISTIAN CITIZENSHIP PRIZE

By the will of Miss Agnes J. McMollen, of Oregon, Ill., one thousand dollars has been bequeathed to the College, to be known as the "Elizabeth McMollen Memorial Fund", in memory of the sister of testatrix. The income from this fund will be awarded annually as a prize to the student presenting the best thesis on some phase of Christian Citizenship.

The subjects for the McMollen Prize for 1911-12 are:

Methods of Giving Religious and Ethical Training for Citizenship in the Public Schools.

Legislation for the Prevention of Corrupt Practices at Elections.

The Social Center Movement in Cities of less than Fifty Thousand Inhabitants.

Obstacles to the Extension of International Arbitration.

THE GEORGE MIDDLEBROOK PRIZES

To stimulate interest in Public Speaking six prizes are offered by Mr. George Middlebrook, of New York City, aggregating $100.00 in amount: a first, a second, and a third prize in Oratory of $25.00, $15.00 and $10.00 respectively, and three prizes of like amounts in Debating.

Admission.

Graduates from a high-school or academy course covering a period of four years are admitted to the Freshman class of the College on presentation of fifteen units of preparatory work, as indicated below. A unit is the equivalent of five recitations per week in a study for one school year. Half-units will be accepted only when presented in addition to whole units in the same subject, or when presented in subjects as closely allied as Botany and Zoology, or as Civics and Economics. The two units of Foreign Language required of all students must be offered in a single language.

All applicants for admission are required to present the following eight units:

Foreign Language, 2.
English Literature, 1.
Rhetoric, 1.
History, 1.
Mathematics, 2.
Science, 1.

In addition. each applicant must present seven units, selected from the following groups:

Foreign Language, 1, 2, 3, or 4.
English Literature, 1, 2, or 3,
History, 1 or 2.
Civics and Economics, 1.
Mathematics, 1.
Science, 1, 2, or 3.

REQUIREMENTS BY DEPARTMENTS.

Botany. The course presented for entrance in Botany should include the elements of plant structure and physiology, and the life history of types of plants representative of the great plant groups. The work on plant structure and physiology should comprise studies of the root, stem and leaves of the higher plants. The laboratory and field work should occupy about two-thirds of the time given to the course.

Chemistry. Students planning Chemistry as an entrance-unit in Science should have had a thorough course in General Chemistry, with laboratory work. The course should include both the non-metals and the metals. It is not expected that qualitative analysis will have been taken up.

Civics. A unit in Civics may be made up of a year's course in Civics, in Civics and Economics, or in Civics and the History of the United States.

English. The requirement in English has two branches, Rhetoric and English Literature. The study of English should be continuous throughout the four years of the high-school course; applicants for admission to college are, however, strongly urged not to present more than three units of English among the fifteen required for entrance. The importance of the study is fundamental; but it should not be made a substitute for other subjects requisite for breadth of training.

a. **Rhetoric.** One unit of Rhetoric is required of all candidates for admission to College; but it is hoped that much more than one-fourth of the high-school course in English will be devoted to work in composition, either as a separate study or in connection with the work in literature. A student whose first month's work in Rhetoric 1 shows serious deficiency in spelling, punctuation, grammar or sentence-structure will be required to take additional work to make up the deficiency, and will be excluded from matriculation until such work is satisfactorily completed.

b. **English Literature.** One unit of English Literature is required of all candidates for admission to College; candidates for entrance to the Freshman course (English Literature 1), must present two units. A third will be accepted in some cases, from schools of exceptional strength.

The course should include the careful study of a few of the greater masterpieces—List A below, or its equivalent—and the more rapid reading of a wide selection of works from the entire field of English literature; teachers are referred for suggestions on the choice of texts to the list adopted by the Conference on Uniform Entrance Requirements in English for 1911-1912.

List A.

Shakespeare's Macbeth; Milton's Lycidas, Comus, L'Allegro, and Il Penseroso; either Burke's Speech on Conciliation with America or both Washington's Farewell Address and Webster's First Bunker Hill Oration; and either Macaulay's Life of Johnson or Carlyle's Essay on Burns. It is desirable that students who present three units for entrance to College should have some knowledge of the history of English Literature; this will be best taught in connection with the study of the third and fourth years in high school. A text-book — Halleck, Pancoast and Seely, Moody and Lovett's *First View*, Newcomer, or Long —may be used for this work, but a simple outline, given as accompaniment and back ground to chronological readings from the literature, is to be preferred.

From a few high schools in which the course in the history of English Literature is comparable, for scope and method, with the College course 1-2, students whose work, as shown by grades and note-books, is of high quality, will be permitted to enter advanced courses in English Literature without taking course 1-2, if they have done satisfactory work in the Freshman course in Greek Literature (Art and Literature 3-4). Students planning to avail themselves of this privilege must present high-school note-books on entrance to College.

German. Two units of German are required for entrance, including preparation in Punctuation, Grammar (Joynes-Meissner or Thomas) and the following Readings: *Glueck Auf* (Mueller and Wenckebach), Storm's *Immensee*, Gerstaecker's *Germelshausen*, *Novelletten-Bibliothek, Vol. 1*, (Bernhardt), Schiller's *Wilhelm Tell*, or equivalents.

Applicants should be able to take part with reasonable correctness in a simple German conversation, and to put simple English sentences into German.

Greek. Two units are required of all students who expect to enter the regular Freshman course (3) in Homer.

The two required units include: Elementary Greek, in some Beginner's Book, Goodwin's or Hadley-Allen's *Greek Grammar*, four books of Xenophon's *Anabasis*, two books of Homer's *Iliad* or *Odyssey*, and forty lessons in Prose Composition.

History. Any three of the following units will be accepted in History. The texts are specified simply as indicating the general scope of the work, and with the understanding that the courses include also collateral reading and topical work.

a. Ancient History. Texts: Botsford's *Greece and Rome*, or West's *Ancient History*.

b. Mediæval and Modern European History. Texts: Robinson's *European History*, Munro's *Mediaeval Europe*, Whitcomb's *Modern Europe*, Thatcher and Schwill's *General History of Europe*.

c. English History. Texts: Terry's *History of England for Schools*, or Coman and Kendall's or Larned's *England*.

d. History of the United States. Texts: Channing, Johnston's *High School History*, McLaughlin. A year's course of high-school, not grammar-school, work must be offered.

Latin. Four units are required of all students who expect to pursue work in Freshman Latin; but any student presenting three units,—two of which must represent the work of courses **a** and **b**, and the third, the work of either course **c** or course **d**, as indicated below,—may with the consent of the instructor be admitted on trial to the Freshman work.

The four units cover the following:

a. Elementary Latin book, with Grammar and easy readings.

b. Four books of Cæsar, or two books of Cæsar and the equivalent of two additional books.

c. Six orations of Cicero, including the *Manilian Law.*

d. Six books of Virgil's *Aeneid.*

Practice in Latin Composition is required in connection with works in Cæsar and Cicero.

Mathematics. Two units are required of all candidates for admission to College, as follows:

a. Algebra, including a thorough mastery of the subjects treated in such a book as Well's *Essentials of Algebra,* through the theory of Quadratic Equations.

b. Plane Geometry. Wentworth's *New Plane Geometry* with the exercises, or an equivalent.

c. Solid Geometry, including the sphere. Wentworth's or an equivalent.

A student may present for entrance, as a third unit of Mathematics, College Algebra and Trigonometry — the equivalents of College Mathematics 1 and 2. Either of these studies will be accepted as a half-unit.

Physics. Students presenting Physics as an entrance-unit should include in their preparation both text-book and laboratory work. The text-books of Millikan and Gale, Carhart and Chute, or Hoadley are recommended.

Physical Geography. Students who present Physical Geography as one of the entrance-units should have completed a course in a standard text-book in Physical Geography, preference being given to Davis, Tarr, Gilbert and Bingham, or Salisbury. Work in Meteorology is not required, but a knowledge of the chief topographic forms and ability to interpret topographic maps are necessary, and an elementary knowledge of field methods is desirable.

Physiology. The work in Physiology presented as an entrance-unit should include the study of a standard modern text-book equivalent to Martin's *The Human Body,* preceded by general work in Botany and Zoology.

Zoology. The course presented in Zoology should consist mainly of Laboratory and field work on the common animals found in the vicinity of the student's home, with careful records and drawings well arranged. A good text-book, such as Linville and Kelly's *Zoology*, should be used as a basis for the work.

ACCREDITED SCHOOLS.

Students are admitted upon certificate from the following classes of preparatory schools:

1. Schools accredited by the North Central Association of Colleges and Secondary Schools, of which Beloit College is a charter-member.

2. Schools accredited as a result of personal inspection and approved by the Faculty of Beloit College.

3. Schools in Wisconsin and neighboring states which have been accredited by Universities and Colleges of recognized standing. Students from such accredited schools are accepted upon certificate, provided that their preparatory course meets the conditions of entrance detailed above.

ADMISSION FROM ACCREDITED SCHOOLS.

Graduates of all schools accredited by Beloit College are admitted to the Freshman class without examination, when properly recommended by the principal or superintendent of schools. Graduates of distant schools of established reputation, but not accredited by the College, may be admitted upon presentation of certificates properly signed, and their approval by the Registrar.

Blank certificates for the recommendation of pupils will be furnished upon application to the Registrar of the College. Applicants for admission are expected to forward to the Registrar such certificates, properly filled out and signed by the principal or superintendent of schools, before the opening of the First Semester.

ENROLLMENT.

Applicants for admission must present satisfactory testimonials of good moral character.

All candidates for admission to the College, whether by examination or certificate, must present themselves for enrollment at Pearsons Hall at 9:00 A.M. on Tuesday, Sept. 17th, 1912. Entrance examinations will be held at 2:00 P.M. on that day, in Pearson's Hall.

All students enter the College provisionally for a semester. At the close of this period those approved by the Faculty are formally matriculated by the President and come into full standing as members of the institution.

Each student must be a member of one of the four regular College classes, and must carry at least twelve hours of class-work. Students in special studies are not received.

Students who can present fourteen units in the branches of study which are required for entrance to College will be classified *conditionally* as Freshmen; such students will be allowed a deficiency of two of the eight required units in the first list above, provided that they offer enough from the second list to make up fourteen. But no student will be matriculated as a member of the College until he has completely fulfilled all the requirements for admission.

At least two of the studies elected in Freshman year of the College must be in continuation of subjects presented for entrance. The following Freshman courses require specific preparation:

German 3-4. Two units of German.
Greek 3. Two units of Greek.
Latin 3. Four units of Latin.

Any student not presenting at least two units in foreign language will be subject to a condition, which may be removed by meeting a requirement of excess hours for graduation not to exceed eight (thus increasing the minimum number of hours for graduation from 120 to 128). The Committee on Accredited Schools and Entrance will determine what courses of beginning language shall be taken; the courses thus prescribed must be taken during the Freshman year.

ADVANCED STANDING.

If the student applying for entrance to College can present more than the fifteen units required, he may be granted advanced standing in the extra studies presented, either by examination or on recommendation of the head of the department in which advanced credits are sought, or as the result of inspection and acceptance by the College of the work in the secondary school in which the courses were taken; but not more than one unit, in addition to the fifteen required, will be accepted for work done in a regular four-year course of study in a secondary school. For advanced credit in science, laboratory notebooks must be presented.

Students who have taken part of the college course in other institutions of approved rank are admitted to advanced standing on the basis of satisfactory credentials of character and scholarship.

ADVANCED STANDING FROM NORMAL SCHOOLS.

1. Graduates from the present Latin and German courses of the State Normal Schools in Wisconsin, who have selected courses of college grade during the Normal

course, are granted full Junior rank (60 semester-hours) at Beloit College.

2. Graduates of State Normal Schools who have not met the above requirements are given a proportional amount of credit, which must be determined in individual cases upon the submission of records to the Registrar of the College.

3. The requirements for the B. A. and for the B. S. degree as laid down in this catalogue must be fully met for graduation. These include:

a. The equivalent of 40 semester-hours of High-School work in Foreign Language.

b. Four semester-hours of College Rhetoric.

c. The equivalent of 12 semester-hours of College Science, in addition to the entrance requirements in Science.

d. The requirement of a Major subject pursued for 18 semester-hours and other subjects, as prescribed in this catalogue. A part of this requirement would be met by conformity with *c* above.

Graduates from State Normal Schools in other states are accepted on the same basis as students from Normal Schools in Wisconsin.

The Course of Study.

The departments of instruction are arranged in three groups, viz:—

I. Language, Literature and Art.
II. Philosophy, the Social Sciences and History.
III. Mathematics and the Sciences.

The Bachelor's degree is conferred upon those students who have satisfactorily completed 120 semester-hours of study, with the required number of credits; (see Scholarship and Credits, p. 39.) These 120 hours must include 4 semester-hours of Rhetoric; 2 of Biblical Literature; 1 of Ethics; a Major, and in addition 12 consecutive semester-hours of Junior and Senior rank in one group other than that in which the Major is taken. Students whose Major is in Group I or II receive on completing the course the degree of Bachelor of Arts; those whose Major is in Group III the degree of Bachelor of Science.

A Major consists of not less than 18 or more than 24 semester-hours made up of courses offered in one department or in allied departments as specified under the detailed statements of the several departments; at least six hours of the Major must have been completed during Freshman or Sophomore year and twelve hours must be taken in consecutive courses designated as Major Courses during Junior and Senior years. For further details regarding Major requirements see statements under the several departments.

By a semester-hour is meant one recitation, lecture, or laboratory-period per week for one semester of eighteen weeks. Not more than six semester-hours may be taken in any one semester in any one department, and not more than 36 hours in any one department will count toward graduation. Elections for Freshman, Sophomore, and Junior and Senior years must conform to the regulations given below. For the degree of Bachelor of Science a thesis may be required in the Major subject to count as 2 or 3 semester-hours; also, at least six hours of College German beyond course 1-2, and six hours of College French must be taken.

Each student, at least two weeks before the election of studies at the end of his Sophomore year, shall select his Major and notify the head of the department concerned. The head of the department in which the Major is chosen becomes the student's adviser for the Junior and Senior years, and all of the student's elections for those years are subject to his approval.

In addition to the foregoing requirements, each student must take three hours of gymnasium work in each semester of Freshman and Sophomore years.

FRESHMAN YEAR.

In the Freshman year the student is required to take in each semester Rhetoric, 2 hours; Biblical Literature, 1 hour, and 12 or 13 hours from the elective groups given below. In the selection of these 12 hours he must take at least 3 hours from each of the groups, and he may not take more than 7 hours from any one group. He may elect either Chemistry or Biology from Group III but not both studies during Freshman year. He may elect an additional hour in Public Speaking or Music. He is required to take three hours of a laboratory science for each of two semesters in either Freshman or Sophomore year.

GROUP I.

French 1-2	3 hours
German 1-2, 3-4	3 or 4 hours
Greek 1-2, 3-4	3 or 4 hours
Latin 1-2, 3-4	3 or 4 hours

GROUP II.

English Literature 1-2,	3 hours
Art and Literature 3-4	3 hours
History 1-2, 15-16	3 hours

GROUP III.

Biology 1-2	3 hours
Chemistry 1-2,	3 hours
Mathematics 1-2	3 or 4 hours

SOPHOMORE YEAR.

In the Sophomore year the student is required to elect 15 hours each semester from the studies given in the groups below. Of these 15 hours he must elect 6 hours from each of two of the groups, and 3 hours from the remaining group; if 9 hours are taken in Group II only 3 hours are required in each of the other two groups. He may elect not more than four hours in any one subject. Freshman studies may be elected in the Sophomore year but subject to the Freshman requirements regarding group distribution.

GROUP I.

French 3-4	3 hours
German 7-8, 9-10	3 hours
Greek 5-6	3 hours
Italian 1-2, 3-4	3 hours
Latin 5-6, 7, 9-10	3 hours
Spanish 1-2, 3-4	3 hours

GROUP II.

Biblical Literature 11-12	3 hours
Economics 21-22	3 hours
English Literature 3-4	3 hours
History 3-4, 5, 18	3 hours
Music 3-4	3 hours
Political Science 1-2	3 hours
Psychology 2	3 hours
Philosophy 1	3 hours
Public Speaking 3-4, 6	3 hours
Rhetoric 3, 5, 8, 10	3 hours

GROUP III.

Astronomy 1	3 hours
Botany 1-2	3 hours
Chemistry 3-4, 7-8	3 hours
Mathematics 25-5, 16	3 hours
Physics 1-2	4 hours
Zoology 1-2	3 hours

JUNIOR AND SENIOR YEARS.

Every student is required to carry at least 15 hours each semester. At least 12 hours of the Major study must be elected in one department from the courses in one group and in addition at least 12 hours of consecutive courses in one of the other two groups, all such elections being of courses designated as Major Courses by the several departments.

GROUP I.

Art and Literature
English Literature
French
German
Greek
Italian
Latin
Public Speaking
Rhetoric
Spanish

GROUP II.

Archæology
Biblical Literature
Economics and Sociology
History
Library Science
Music
Pedagogy
Philosophy
Political Science
Psychology
Religious History

GROUP III.

Astronomy
Biology
Botany
Chemistry
Geology
Mathematics
Physics
Zoology

Departments of Instruction.

ARCHAEOLOGY.

MR. BUELL

1-2. Archæology. *Year Course.*

1. First Semester.
2. Second Semester.

Study of the conditions of life of primitive man, his utensils, ornaments and means of defense, and evidence of his progress in art and in the conquest of nature. Full use will be made of the extensive collections in the Logan Museum and through these the students will become familiar with the arrangement and care of museums.

Sophomore Year, two hours.

ART AND LITERATURE.

PROFESSOR WRIGHT

1-2. Classic Art.

1. First Semester: Greek and Roman Art.
2. Second Semester: Rennaissance Art.

Courses introductory to the elementary principles underlying all art, as illustrated in the architecture and sculpture of Greece and Rome and in the arts of the Renaissance. The students' work is based upon a laboratory study of the University Prints issued by the Bureau of University Travel. Lectures are illustrated by lantern slides and by the casts of the Fisher collection in the Art Hall.

Junior or Senior Year, three hours; elected by the semester. Given annually.

3-4. Greek Literature.

3. First Semester: Iliad, Odyssey, Lyric Poetry.
4. Second Semester: Greek Drama, Greek Prose.

This course is intended to be fundamental to the understanding of the more modern literatures, so far as they are based upon the form and content of the ancient Classics. The ancient works are studied in the best translations and compared with related forms in other literatures. Lectures are given on important phases of Greek life and Greek expression.

Three hours, Freshman year; elected by the semester.

ASTRONOMY

PROFESSOR HAMILTON

1. Elementary Descriptive Astronomy.

A simple text-book is taken as a basis and read by the class. This is amplified by lectures and illustrated by lantern-slide views and accompanied by a limited amount of observatory work. The course is non-mathematical and is open to students above the Freshman year. The course is primarily intended to give a culture-view of the subject, and aims to take up those aspects of the science with which every educated person should be acquainted.

First Semester, Sophomore, Junior, or Senior Year, three hours. Given in 1911-12, and in alternate years thereafter.

2. Modern Astronomy.

A continuation of course 1. The text is supplemented by readings from various sources. The lectures deal especially with the theory of light in its Astronomical applications; the physical theory of the sun; and the condition and development of the nebulæ and the fixed stars.

Second Semester, Sophomore, Junior, or Senior Year, three hours.

5-6. Introduction to Celestial Mechanics. *Year Course.*

Elementary dynamics, including central forces and the problem of two bodies. Computation of orbits.

Junior or Senior Year, three hours. Pre-requisite, Mathematics 5-6. Given when demanded by a sufficient number of students.

10. Navigation and Engineering Astronomy.

A course especially intended to give those portions of Astronomy which are of assistance to the navigator and the civil engineer. The work follows mainly Hayford's *Text Book of Geodetic Astronomy*, with chapters from Bowditch's *Navigator*, illustrated by use of instruments and reduction of observations.

Second Semester, Sophomore, Junior, or Senior Year. Pre-requisites, Astronomy 1 and Mathematics 1. Given when demanded by a sufficient number of students.

BIBLICAL LITERATURE

Professor Deane

It is the aim of this department to put the student into possession of the methods and apparatus of Biblical and religious study and thus to open the way for a permanent interest in the prosecution of these vital themes. These methods are illustrated by study of various portions of the Bible and also of religious history. The student is introduced to the most helpful of the abundant literature on these topics, but he is encouraged above all to deal directly with the Bible itself, that he may not be altogether dependent upon other books in his further study. The work is primarily arranged in the interests of those who seek acquaintance with these historic and stimulating subjects as an essential part of a liberal education. While some freedom in the order of election is allowed, it is desirable that courses 11-12 should be covered in the Sophomore Year.

1-2. Biblical Introduction. *Year Course.*

A general introduction to Biblical study, covering in outline the traditional story of the Hebrew race, the rise of the Hebrew sacred literature, the life of Jesus Christ, the development of the New Testament writings, and the history of the transmission of the Bible to our own day. The last part of the course is given to a study of selected examples of the different types of literature found in the Bible. Lectures and references.

Freshman Year, one hour. Given annually, and required of all students.

11-12. Old Testament History and Literature.

11. First Semester: the history of the Hebrews down to the division of the kingdom; the origin of the Hebrews and their relation to other Semitic peoples, their early religious and political institutions; character and contents of the historical books.

12. Second Semester: the history and literature of the Divided Kingdom, the Exile, and the Restoration; the rise and development of prophecy; beginnings of Jewish religious institutions and customs.

Sophomore Year, two hours. Elected by the semester. Given annually.

5-6. Wisdom Literature and Lyric Poetry.

5. First Semester.

6. Second Semester.

Hebrew Wisdom: its nature and principles as seen in Job, Proverbs and Ecclesiastes; relation to Greek thought; influence upon Christianity. Lyric poetry of the Hebrews; its rise, development and final forms, with a study of representative examples. This course is supplementary to course 11-12 and may best be taken at the same time.

Sophomore Year, one hour. Elected by the semester.

7-8. Hebrew. *Year Course.*

7. First Semester.

8. Second Semester.

The forms and syntax of the Hebrew language; readings in the Old Testament. The course includes a study of the genius of the language in its relation to the contents and permanent value of the Hebrew Scriptures. Students desiring this course should give early notice, as it will not be given every year.

First Semester, three hours; Second Semester, two hours.

10. Teachings of Jesus.

Ruling ideas in the religious and ethical teaching of Jesus, with some reference to the problems of today. The course embraces an account of existing religious conditions in the time of Jesus, and a study of the origin and mutual relations of the four Gospels.

First Semester, Junior or Senior Year, two hours. Given annually.

9. Christian Origins.

A study of the thought and life of the Apostolic Age as presented or reflected in the book of Acts and the Epistles, with special attention to the development of Christian doctrine and the beginnings of Church institutions and customs.

Second Semester, Junior or Senior Year, two hours. Given annually.

Note.—The attention of students in this department is directed to the courses in Religious History, in New Testament Greek (Greek 13), and in Religious Education (Pedagogy 6).

BIOLOGY

Professor Densmore, Associate Professor Kunkel,
Mr. Haines, Miss Huschka

PROFESSOR DENSMORE

1. Plant Biology; forms a *Year Course* with 2.

The course in Plant Biology comprises three main topics: —(1) the cellular structure of organisms, illustrated by studies of cell division and cell differentiation in the higher plants; (2) the reproductive processes and life histories of organisms, illustrated by a series of plants selected from algæ and fungi; (3) nutrition of green plants and fungi, including the discussion of the general topics of fermentation, disease, and decay. Lectures and laboratory work.

First Semester, three hours. Open to all classes. Given annually.

ASSOCIATE PROFESSOR KUNKEL

2. Animal Biology; forms a *Year Course* with 1.

This course is designed to acquaint the student by means of laboratory exercises, lectures and quizzes with the more important principles of Biology as exemplified by animals. A number of typical animals are studied carefully with special reference to structure, function, relation to environment and life history.

Second Semester, three hours. Open to all classes. Given annually.

BOTANY

PROFESSOR DENSMORE, MR. HAINES, MISS HUSCHKA

Requirements—Biology 1, or something equivalent is required as a pre-requisite for all courses in Botany. One lecture and six hours of laboratory work are required for all three-hour courses. Other courses require a proportionate amount of time. Twenty-one semester hours are required for a Major in Botany of which Biology 2 may count for three hours.

Courses for General Students—Courses 2, 6 and 4 with the course in Plant Biology are designed to give students a general knowledge of plant life including the form, structure, development and physiology of plants. These courses should be elected by students who expect to major in Botany and by those who desire a brief general course in Botany, for culture or for teaching Botany in high schools.

Courses for Major Students—Major students in Botany are required to complete courses 2, 6, 4, 5, 7 and 1 or 3 in addition to Plant Biology. For arrangement of courses to meet the requirements of consecutive courses in the last two years of the course, consult the instructor.

Special Courses—Recommended as a preparation for special lines of work.

Forestry: Courses 2, 6, 4, 5 and 3.

Agriculture and Horticulture: Courses 2, 6, 4, 3 and 7.

Sanitary Science: Courses 2, 6, and 3.

Teaching: Courses 2, 6, 4, 5, 1, and 3.

Description of Courses

2. Seed Plants.

A comparative study of the higher seed plants, pines, flowering plants and their allies. The form, structure, reproduction and development of familiar representatives of seed plants are studied and compared. The elements of Plant Anatomy are given to furnish a preparation for Plant Physiology.

First Semester, three hours. Pre-requisite, Biology 1. Given annually.

First or Second Semester, three hours.

6. Plant Physiology.

Experiments, lectures and recitations on the physiological processes of plants. The laboratory work includes experiments in the physiological laboratory on photosynthesis, migration and storage of foods, respiration, digestion, absorption and movements of water, irritability, and response in plants.

Second Semester, three hours. Pre-requisite, course 2. Given annually.

4. Classification.

A field course designed to acquaint the student with the classification, habits and distribution of the main groups of seed plants. The common trees, shrubs and plant groups of economic importance receive special attention.

Second Semester, one hour. Given annually. Open to all students who have had Plant Biology 1.

1. Mosses, Liverworts and Ferns.

The nature and development of ferns, mosses and liverworts and their allies. This course combined with course 2 on Seed Plants forms a year course on the higher spore bearing and seed plants.

Second Semester, three hours. Not offered in 1911-12; given in 1912-13.

3. Algæ and Fungi.

Field studies and laboratory work, supplementary to the course in Plant Biology, on the main groups of Algæ and Fungi. Fungous diseases of trees and of the cultivated plants will be emphasized in this course.

Second Semester, three hours. Offered in 1913-14. Given in alternate years and open to members of the three upper classes who have completed Biology 1.

5. Anatomy.

The anatomy and histology of seed plants with methods of preparing plant tissues for study, including fixing, mounting and staining. Epecial attention is given to the structure of wood and to the growth and anatomy of forest trees.

First Semester, three hours. Pre-requisite, course 2.

7. Embryology and Cytology.

General studies in Plant Cytology and Embryology with lectures and readings on cell theories of Reproduction, Heredity, Hybridization and Mutation applied to plants. In addition each student will be assigned a special problem for independent work upon which reports or a written thesis will be required. Special methods of killing, staining and mounting material for cytological and embryological studies will be given in the course.

Second Semester. three or four hours. Required of all Major students in Botany. Pre-requisites, courses 2 and 5.

8. Thesis Course.

Special studies with collateral readings and a thesis are offered to Seniors who have taken Major work in Botany. The topics for study are to be arranged with the instructor. Courses 5 and 7 are usually necessary for this course.

First or Second Semester, Senior Year, three hours.

CHEMISTRY

PROFESSOR E. G. SMITH, DR. McLEOD, MR. KOEFOD

1-2. General Chemistry. *Year Course.*

1. First Semester.
2. Second Semester.

During the first semester, lectures, recitations, and laboratory work with the non-metals. For the second semester, lectures on the metals, with recitations and laboratory work. Three recitations, or laboratory periods, and one lecture weekly.

The class is divided into three sections. One section is known as Advanced General Chemistry to which only those students who have had at least one semester of Elementary Chemistry are admitted. The laboratory work supplements work already done and is largely of a quantitative character.

Freshman Year, three hours. Given annually.

PROFESSOR SMITH

1-2. Advanced General Chemistry. *Year Course.* (See above under General Chemistry.)

5-6. Quantitative Analysis. *Year Course.*

5. First Semester.
6. Second Semester.

The course will include the simpler quantitative determinations and the quantitative analysis of a series of alloys and natural minerals, concluding with analyses of the silicates. Both gravimetric and volumetric methods will be studied. During the year a seminar course in reading on some phase of Theoretical Chemistry is introduced.

Junior Year, three hours. Pre-requisites, courses 1-2 and 3-4. Given annually. Major course.

7-8. Organic Chemistry. *Year Course.*

7. First Semester.

8. Second Semester.

A course of lectures on Organic Chemistry. The course may be taken with or without laboratory work on the preparation of a limited number of compounds supplementing the lectures, and illustrating the more common laboratory processes.

Sophomore, Junior, or Senior Year, two or three hours. Pre-requisite, course 1-2. Given annually. The lecture course counts for two hours; when laboratory work is included, three hours. Both courses are required of students electing for pre-medical work. Major course.

16. Sanitary Chemistry.

A course in Sanitary Chemistry, in which the study of natural waters, drainage, air, foods, etc., is taken up. The course is given by lectures, laboratory work, and reports on special topics.

Second Semester, Junior or Senior Year, two hours. Pre-requisites, courses 1-2, 3-4, and 7-8. Given in 1911-12. and in alternate years thereafter.

20. Teachers' Course.

A study of methods of teaching Chemistry in the secondary schools. Lectures and discussions.

Second Semester, Junior or Senior Year, one hour. Given in 1912-13. (See under Pedagogy 10).

30. Thesis.

A special study of some topic, requiring both a reading of its literature and laboratory investigation.

Second Semester, Senior Year, two or three hours. (See below under Notes for Major Students.)

DR. MCLEOD

3-4. Qualitative Analysis. *Year Course.*

3. First Semester.
4. Second Semester.

A course in qualitative chemical analysis, beginning with the simple re-actions of the metals. The latter part of the course will be devoted to the study of the analysis of natural compounds, commercial products, and inorganic preparations. During the second semester a brief course in determinative mineralogy is introduced, with special reference to the natural occurrence of the elements and study of the methods of dry analysis.

Sophomore Year, three hours. Pre-requisite, course 1-2. Given annually.

9-10. Physical Chemistry.

In this course will be taken up some of the modern theories of Chemistry, especially those dealing with Gases, Thermochemistry, Solutions, the Phase Rule, Ionization, etc. The course will be based upon text-book work, with readings, laboratory work, and discussions.

First and Second Semester, Junior or Senior Year, three hours. Pre-requisites, course 1-2, and Physics 1-2. It is expected that the student shall have had also courses 3-4 and 5-6, and Mathematics through Calculus. Major course.

18. Electro Chemistry.

A course in Electro-Chemistry in which will be discussed the modern theories relating to the subject and their application to the chemical industries and to electro-analysis. Lectures, readings, and laboratory work.

Second Semester, Junior or Senior Year, three hours. Pre-requisites, as under courses 9-10, including also those courses. Given in 1911-12. Major course.

12. Applied Chemistry.

An elementary discussion of the application of Chemistry to industry and the arts. The course will be given by lectures and reports on chemical manufactures on the large scale, such as the acid and alkali industries, dyeing, and the manufacture of cements, leather, paints, etc.

Second Semester, Junior or Senior Year, two hours. Pre-requisite, course 1-2. Given in 1912-13.

40. Stoichiometry.

A course in Chemical calculations; designed to render the student familiar with the ordinary problems of General Chemistry. Especially valuable for those who expect to teach Chemistry, or to enter some other branch of science.

One Hour. Open to any student who has had Chemistry 1. Required of all students whose Major is in Chemistry.

NOTES. The courses in this department are numbered consecutively, and it is expected that elections will be made following the numbers of the courses so far as possible.

FOR ADVANCED STUDENTS. Students entering from approved secondary schools, and presenting more than the number of units required for admission to college, and having the full equivalent of courses 1-2, may present their records together with their laboratory note-books, and after passing a satisfactory examination they may be accepted for advanced standing for a certain number of hours but without honor credits.

For Those Whose Major is in Chemistry. Students electing Chemistry as a Major are expected to elect courses 1-2 during Freshman Year, 3-4 during Sophomore Year, and 12 hours during Junior and Senior years from courses 5, 6, 7, 8, 9, 10, 12.

Where Chemistry is taken as a Major, students are urged to elect Mathematics through Calculus. In addition to the 24 hours thus prescribed for a Major, any student taking honors in Chemistry will be required to elect 2 or 3 hours for a thesis during the second semester of Senior Year; others may elect such thesis work.

DRAFTING AND SURVEYING

Professor Hamilton, Mr. Wharry

MR. WHARRY

1-2. Mechanical Drawing. *Year Course.*

1. First Semester.
2. Second Semester.

A course in drafting preparatory to machine-designing, architectural drawing, or civil engineering. The course covers simple lettering and dimensioning, isometric, cabinet, and orthographic projection of simple forms, together with elementary shades and shadows and perspective.

Three hours. Pre-requisite, Mathematics 1-2.

26. Drawing and Lettering.

A course which aims to give those parts of drafting which are most useful for the surveyor and civil engineer. Especial attention is paid to plain lettering preparatory to field note work of the surveyor. The simple elements of geometrical drawing, cabinet and orthographic projections are taken up, together with a limited amount of tracing and blue-printing. This course is not recommended for those who contemplate engineering-school work after leaving College; to such students the longer course, 1-2, is commended.

Second Semester, Junior or Senior Year, three hours. Pre-requisite, Mathematics 1-2.

PROFESSOR HAMILTON

5-6. Surveying. *Year Course.*

5. First Semester.

6. Second Semester.

The general principles of land and city surveying and the elements of topographical surveying are given, abundantly illustrated by field work and reduction of data.

Junior or Senior Year, two hours. Pre-requisites, Mathematics 1-2, and Drafting and Surveying 1-2; or may be taken in conjunction with course 1-2. Given in 1912-1913, and in alternate years.

ECONOMICS AND SOCIOLOGY

PROFESSOR CHAPIN

21-22. Economics.

The principles of Economics, with some training in the application of these principles in the interpretation of the facts of present-day industry and commerce. Pre-requisite for all other courses in this department. Ely's *Outlines,* revised edition, is used as a text, with assigned readings in other authors. Recitations, lectures, and exercises in the discussion of illustrative problems.

First and Second Semesters, Sophomore, Junior, or Senior Year, three hours. Given annually. A year-course, but may be dropped at end of the first semester. (In 1909-10, given as 2).

3. Finance.

Public revenues and expenditures, governmental industries, taxation, the budget, public debts, considered with especial reference to conditions prevailing in the finances of the local, state, and national governments in the United States. Adams' *Finance* is used as a text, together with lectures and topical readings.

First Semester, Junior or Senior Year, three hours. Pre-requisite, course 21-22. Given in 1912-13, and alternate years.

5. Money and Banking.

The functions of money, coinage, bi-metallism, credit, banking, credit currency, bank notes. Recitations in Scott's *Money and Banking*, lectures, readings in various standard texts and official reports.

First Semester, Junior or Senior Year, three hours. Pre-requisite, course 21-22. Given in 1911-12, and alternate years.

6. Railroad Transportation.

This course aims to present the economic rather than the technical aspects of transportation, and includes a discussion of the organization, functions, and administration of the railroads of the United States, and their relations to society and government.

Second Semester, Junior or Senior Year, three hours. Pre-requisite, course 21-22. Given in 1911-12, and alternate years.

8. Industrial Corporations.

The economic advantages of corporate organization; concentration of control through agreements, trusts, and consolidation of corporations; the economic effects of monopolistic combinations; proposed methods of legal regulation.

Second Semester, Junior or Senior Year, three hours. Pre-requisite, course 21-22. Given in 1910-11, and alternate years.

9. Sociology.

A study of modern local social groups is made the starting-point for the discussion of the historic forms of social organization and the interaction of the social forces seen in social evolution. Lectures, with assigned readings and topical reports.

First Semester, Junior or Senior Year, three hours. Pre-requisite, course 21-22. Given annually.

10. Social Problems.

A discussion of certain social problems of modern life, with reference on the one hand to biologic and economic causes and on the other hand to policies and agencies directed toward the improvement of existing conditions. Lectures, assigned readings, and topical reports.

Second Semester, Junior or Senior Year, three hours. Pre-requisite, course 21-22. Given annually.

11. Socialism.

A study of the works of representative socialistic writers of the nineteenth century, their criticisms of the industrial organization of society, their constructive proposals, their practical experiments.

First Semester, Senior Year, three hours. Pre-requisite, course 21-22. Given in 1912-13, and alternate years.

13. Modern Philanthropy.

The causes of poverty, the history of methods employed in dealing with poverty, disease, and crime, the principles of organized charity, the rise of preventive philanthropy, and the most important of the agencies now engaged in the work of social amelioration. Emphasis is laid upon preventive rather than merely remedial efforts. Lectures, readings, and topical reports.

First Semester, Junior or Senior Year, three hours. Pre-requisite, course 21-22. Given in 1911-12, and alternate years.

14. Financial History of the United States.

A study of the financial legislation of the United States and the administration of the Treasury Department, considered with reference to the economic development of the country and the political influences that shaped the financial policy of the government. Dewey's text is used, with the preparation of reports by the use of public documents.

Second Semester, Junior or Senior Year, two hours. Pre-requisite, course 3. Given in 1912-13, and in alternate years.

A Major in Economics consists of 15 hours of Junior and Senior courses, preceded by course 21-22, which should be taken by those expecting to take a Major in this department.

ENGLISH LITERATURE

Professor Wells, Assistant Professor Clancy,
Miss Adams, Mr. Merriam

Pre-requisite for Advanced Courses in English Literature is satisfactory completion of course 1-2. Students who as Freshmen in 1911-12 completed the course Art and Literature 3-4, will be regarded as having satisfied this requirement.

For courses in Rhetoric and Composition, see Rhetoric.

ASSISTANT PROFESSOR CLANCY, MISS ADAMS, MR. MERRIAM.

1-2. Introduction to the Study of Literature.

Year Course.

This is not a survey course or a study of history of English Literature. The work of the year consists in careful study of selected notable pieces of English literature with the following ends in view: (1) to arouse to a realization of the vital worth and interest of Literature; (2) to familiarize with the matter and the form of certain representative and influential works; (3) to assist to a notion of the chief characteristics of greater classes of literature. The course will proceed as follows: Drama, Narrative Poetry, Lyrical Poetry, Modern Prose. Assistant Professor Clancy and Miss Adams, each one division; Mr. Merriam, two divisions.

Freshman Year, three hours. Given annually. See head-note.

PROFESSOR WELLS

3-4. Shakespeare.

A close study of about fifteen of the plays of Shakespeare, and reading of several additional plays. Open class discussion to bring out dramatic and dramaturgic qualities, with special stress on ethical and universal elements of the works.

First and Second Semester, three hours. Primarily for Sophomores. Pre-requisite, see head-note. May be elected by the semester. Required of all students majoring in English. Given annually.

5. Old English.

The beginnings of the English language and literature. The grammar of Old English. Readings of selections of Old English prose and verse in the original, and of extensive selections in translation. Lectures in Old English literature and on the history of the language. Knowledge of German and of Latin is necessary for the pursuing of this course.

First Semester, Junior or Senior Year, three hours. Pre-requisite, see head-note. Major Course. Not given in 1912-13; given in 1913-14. Either course 5 or course 6 is required of all students majoring in English.

6. Middle English, particularly Chaucer.

A course in Middle English literature, with much attention to the development of the language. A knowledge of Old English is not necessary for the course. Reading of specimens of Middle English Literature, portions of Langland and Gower, and all of *The Pearl*. The course centres about Chaucer and aims to give familiarity with all of his principal work and with its spirit as representative of the man and the period.

Second Semester, Junior or Senior Year, three hours. Pre-requisite, see head-note. Major Course. Given in 1911-12 and 1913-14. Either course 5 or course 6 is required of all students majoring in English.

9. English Poetry, 1798-1832.

Study of poems of Scott, Byron, Shelley, Keats, Coleridge, and Wordsworth. The course will be devoted chiefly to close study of the poetry of Wordsworth in an attempt to appreciate the attitude of the poet, in theory and in practice, toward Nature and toward Man. Lectures, discussions, reports.

First Semester, Junior or Senior Year, three hours. Pre-requisite, see head-note. Major Course. Given in 1912-13 and alternate years.

20. Victorian Prose.

Careful study of the thought of Carlyle, Ruskin, and Arnold, or of other representative writers, as manifested in selected works, with special attention to its bearing on their own day and on the present time. Lectures, discussions, reports.

Second Semester, Junior or Senior Year, three hours. Pre-requisite, see head-note. Major Course. Given in 1912-13 and alternate years.

29. Victorian Poetry, chiefly Tennyson.

Study of the development of the ideal of Tennyson in theory and in practice, and of the growth of his power of expression. Especial consideration is given to his treatment of problems of modern life and thought. One other Victorian poet will be considered. Lectures, discussions, reports.

First Semester, Junior or Senior Year, three hours. Pre-requisite, see head-note. Major Course. Given in 1911-12, and alternate years.

19. Victorian Poetry, chiefly Robert Browning.

Close study of selected poems by Browning to afford an introduction to the characteristics of the poet's composition, and to acquaint with his conception of art and with his philosophy of life. One other Victorian poet will be studied. Lectures, discussions, reports.

Second Semester, Junior or Senior Year, three hours. Pre-requisite, see head-note. Major Course. Given in 1911-12, and alternate years.

17. Elements of Literary Criticism.

The course is devoted first to consideration of general fundamental bases for proper appreciation and judgment of literature; and later to examination of the essential characteristics of various classes of literature, and of the principles applicable especially to them.

First Semester, Junior or Senior Year, three hours. Pre-requisite, see head-note. Major Course. Required of all students majoring in English. Given in 1912-13, and alternate years.

30. Special Topics.

Detailed study of selected topics or writings, upon which will be held class discussion and consultation with the instructor. Each student will prepare an extended paper on some phase of his own study. Introduction will be given to the principal sources of information as to English language and literature.

Second Semester, Senior Year, three hours. Major Course. Required of all students majoring in English; open to others only by special permission. Given annually.

MISS ADAMS

32. English Literature in the Eighteenth Century.

A study of the characteristics of English literature from the Restoration to the death of Burns. After careful consideration of the qualities of the so-called Classical School, the development of the literature (exclusive of the Novel) with special emphasis on the manifestation of the romantic spirit, will be studied.

Second Semester, Junior or Senior Year, three hours. Pre-requisite, see head-note. Major Course. Given in 1911-12, and alternate years.

26. The English Novel.

A study of the development of the novel, from Addison's *De Coverley Papers* to the novels of Meredith. The structure and elements of the Novel. Reading and study of the representative novels of the period. Lectures, reports, and class criticisms.

First Semester, Junior or Senior Year, three hours. Pre-requisite, see head-note. Major Course. Given in 1911-12, and alternate years.

24-25. American Literature.

Study of work of greater representative nineteenth century writers—Irving, Cooper, Bryant, Emerson, Hawthorne, Whittier, Longfellow, Poe, Holmes, Thoreau, Lowell.

First and Second Semesters, Junior or Senior Year, Given in 1912-13, and alternate years. Elective by the semester.

MR. MERRIAM

23-28. English Literature, 1579-1674.

A study of the literature (exclusive of the drama) from the *Shepherd's Calendar* to the death of Milton. Study of the spirit of the period as manifested in the various forms of literature of the time. In the first semester the work will center about Spenser; in the second semester, about Milton. Discussions and reports.

First and Second Semesters, Junior or Senior Year, three hours. Pre-requisite, see head-note. Major Course. Given in 1912-13, and alternate years. Elective by the semester.

21. Teachers' Course.

The course aims to crystallize the student's thoughts on literary topics, to discover something of the nature of specific problems of the teaching of English in secondary schools, to suggest methods of teaching Literature and Composition in the schools. Practice in presentation of subjects and in theme-reading.

Second Semester, Senior Year, two hours. Given annually.

FOR A MAJOR IN ENGLISH LITERATURE, Courses 1-2, 3-4, 5 or 6, 17, 30, and one additional three-hour course, are *required*. Those who expect to teach English should elect the Teachers' Course, 21. The student should take at least a semester of work in advanced Composition. He is advised to elect at least twelve hours of History, probably courses 1-2, 7-8; Art and Literature 3-4 and 1-2; Philosophy 5-6. A considerable knowledge of Latin is practically essential for effective work in English Literature.

ETHICS

PRESIDENT EATON

1. Ethics.

An introductory course, sketching the rise and development of various moral conceptions and codes, and discussing the leading ethical theories, with their bearings on some of the present problems of society.

First Semester, Senior Year, one hour. Required of all students. This course is followed by Philosophy 7, to which it is pre-requisite.

GEOLOGY

PROFESSOR COLLIE, MR. BUELL

PROFESSOR COLLIE

11-12. General Geology.

11. First Semester.

12. Second Semester.

A beginning course in Geology, in which the study of geologic processes and their results is especially emphasized. Chamberlin and Salisbury's *Geology*, Vol. 1. Laboratory work and field excursions.

Junior or Senior Year, three hours. Pre-requisite, Chemistry 1-2.

1-2. Physiography.

1. First Semester.

The course is designed to give the student a knowledge of the surface features of the earth, dealing particularly with the development of geographical forms and the processes by which they have been made. Salisbury's *Physiography*; field and laboratory work.

2. Second Semester.

This is a course in applied physiography dealing with the influences of physical environment upon man, upon his history, commerce and culture. Lectures and reference books.

Junior or Senior Year, three hours.

7-8. Evolution.

7. First Semester.

This course includes a discussion of the various theories of evolution and the evidences of evolution among animals.

8. Second Semester.

This course considers the evolution of man from the standpoint of his physical, mental and religious nature. It deals also with the evolution of early art, manufacturing and other forms of culture.

Senior Year, three hours. Pre-requisite, Biology 1-2.

MR. BUELL

9-10. Palæontology.

9. First Semester. General outlines of the whole subject and a detailed study of Palæozoic life. The nature and preservation of fossils will be considered and the specific determination of characteristic Palæozoic fossils in the laboratory will constitute the major part of the course.

10. Second Semester. Mesozoic and Cenozoic life, a continuation of the study of fossil forms through later eras. The work will include a study of the characteristic groups of more recent time and their related physical conditions. The end sought in this course is familiarity with the life of Geologic periods and such specific knowledge of type specimens as to identify them and by this means their Geologic horizons. Lectures, field and laboratory work.

Senior Year, three hours. Pre-requisites, Biology 1-2, Geology 11-12.

Those desiring to major in Geology should consult the head of the department.

NOTE.—All courses may be elected by the semester, but the second semester courses are open only to those who have completed the work of the first semester.

GERMAN

PROFESSOR DUBEE, MR. MENGER, MR. HORST

MR. MENGER, MR. HORST

1-2. Elementary German. *Year Course.*

1. First Semester.

2. Second Semester.

A course for students who enter College without German. Essentials of German grammar, pronunciation, composition, and reading of easy prose. The books used in 1911-1912 are Prokosch, *Introduction to German*, some of the shorter prose works of Storm and of Heyse, and Schiller's *Wilhelm Tell.*

Freshman Year, four hours.

3-4. Intermediate German. *Year Course.*

3. First Semester.

4. Second Semester.

Reading of Schiller's *Jungfrau von Orleans,* Lessing's *Minna von Barnhelm,* and modern prose. German composition, and constant review of German grammar.

Freshman or Sophomore Year, three hours. Pre-requisite, course 1-2, or two years of high-school German. Students who enter college with more than two years of German should consult the head of this department, before electing their German studies.

PROFESSOR DUBEE

7-8. German Conversation.

A course in advanced German conversation. Discussions of modern German life and customs, and political, economic and educational conditions. Conducted entirely in German.

Junior or Senior Year, three hours. Pre-requisite, course 9-10. Given in 1912-13, and in alternate years.

9-10. Advanced German Syntax and Composition. *Year Course.*

9. First Semester.

10. Second Semester.

Writing of German themes, study of Jagemann's *German Syntax,* and discussion of linguistic difficulties.

Sophomore Year, three hours. Pre-requisite, German 3-4. Required of students who expect to teach German in high-schools.

MR. MENGER

11. The Nibelungenlied, Gudrun, and the Court Epics.

Reading of modern German translations of the Nibelungenlied, Gudrun, and selections from the German court epics. History of German Literature to Lessing's time. Readings and reports.

First Semester, Sophomore Year, three hours. Prerequisite, course 3-4.

12. Lessing, Herder, and the Storm and Stress Movement.

Reading of Lessing's *Nathan der Weise* (or, *Emilia Gallotti*), and one representative work of the Storm and Stress Period in German literature. Outside readings and reports. History of German literature of this period.

Second Semester, Sophomore Year, three hours.

PROFESSOR DUBEE

13. Heine's Relation to the Romantic Movement.

Reading of the prose writings of Heine, and a study of his lyrics. His relation to the German romanticists and to Byron. Outside readings and reports.

First Semester, Sophomore Year, three hours. Prerequisite, course 3-4.

14. The German Drama in the Second Half of the Nineteenth Century.

Reading of at least two important dramas, selected from the works of Freytag, Ludwig, Hebbel, Sudermann, or Hauptmann. Outside reading of at least two other dramas from this same group and reports.

Second Semester, Sophomore Year, three hours. Prerequisite, course 3-4.

18. History of German Literature and Culture (in outline.)

A rapid review of the cultural forces in Germany, from the earliest beginnings to our own times. Lectures, outside readings, and reports. No knowledge of German is required for this course.

Second Semester, Junior or Senior Year, two hours. Not given in 1912-13.

17. Schiller and His Time.

A study of Schiller's Dramatic and Lyric works. Lectures on Schiller's artistic development, his influence on the nineteenth century, and the cultural conditions of his time. Reports on outside readings.

First Semester, Junior Year, three hours. Pre-requisites, course 3-4, and six semester-hours of more advanced German. Not to be given in 1912-13.

18. Schiller's *Wallenstein.*

A continuation of course 17. Critical reading of Schiller's greatest drama. Lectures on Schiller's æsthethic and philosophical writings.

Second Semester, Junior Year, three hours. Pre-requisites, as under course 17. Not to be given in 1912-13.

20. Teacher's Course, in German.

Methods of teaching German in the secondary schools. Criticism of text-books. Class-visitation and practice-teaching.

Second Semester, Senior Year, one hour. Required of students who expect to teach German. (See under Pedagogy 10).

21. Masterpieces of the Nineteenth Century.

Rapid reading of the best modern German prose. Lectures on the political, economic, social, and literary conditions of the first half of the nineteenth century, with special emphasis on the causes of the revolution of 1843. Outside readings and reports.

First Semester, Junior Year, three hours. Not to be given in 1912-13.

22. Masterpieces of the Nineteenth Century.

Rapid reading of the best dramatic works, belonging to the second half of the nineteenth century. Outside readings and reports. Lectures as in course 21.

Second Semester, Junior Year, three hours. Not to be given in 1912-13.

23. Goethe's Life and Works.

Careful reading and analysis of Goethe's Lyrics. His philosophy of life, his attitude toward Nature, and his æsthetic principles. Outside reading of Bielschowsky's *Goethe-Biography*, and reports.

First Semester, Senior Year, three hours.

24. Goethe's *Faust.*

This course should be taken as a continuation of course 23, which is intended as a preparation for Goethe's Faust.

Second Semester, Senior Year, three hours.

A GERMAN MAJOR must include 18 semester-hours, to be selected from courses 11, 12, 13, 14, 16, 17, 18, 21, 22, 23, and 24.

A GERMAN TEACHING MAJOR must include, in addition to the above requirement, courses 9 and 10.

GREEK.

PROFESSOR WRIGHT

1-2. Elementary Greek. Greek Grammar; Xenophon and Homer. *Year Course.*

1. First Semester.
2. Second Semester.

This course, introductory to course 3, is offered to students entering College with no knowledge of Greek.

Freshman or Sophomore Year, four hours.

3. Homer.

Two or three books of the *Odyssey* are read slowly, with study of details in language and style; large portions of the epic are then read much more rapidly, with a view to literary appreciation and to a study of the heroic life of Homeric Greece.

First Semester, Freshman Year, three hours. Pre-requisite, course 1-2, or its equivalent in high-school Greek.

4. Herodotus, Xenophon, and Plato.

Passages from Herodotus are made the basis of a review of the history of Greece during the Persian Wars and the century preceding. The life, character, and times of Socrates are studied from portions of the following texts: Xenophon's *Memorabilia* and *Symposium*, Plato's *Apology* and *Crito*, *The Clouds* of Aristophanes.

Second Semester, Freshman Year, three hours.

5-6. Euripedes, Sophocles, and the Lyric Poets.

5. First Semester.
6. Second Semester.

In these courses the history, form and spirit of the Greek drama are studied. Three or four tragedies are translated, one of which is done into English verse by the members of the class. This version is often given in public as a dramatic rendering. During the latter part of the year selections from Greek Lyric Poetry are translated by the class and compared in style and content with the songs of other peoples.

Sophomore Year, three hours.

7-8-9-10. Greek Orators, Philosophers, and Comedians.

To such students as are prepared for advanced Greek readings these semester courses are offered. The works studied are selected according to the requirements and tastes of the students electing.

Junior and Senior Years, two hours.

13. New Testament Greek.

A study of the characteristics and style of the Greek of the New Testament. This course is intended specially for students of Biblical Literature, and is counted toward a Major in that subject.

First Semester, Junior or Senior Year, one hour.

HISTORY

PROFESSORS RICHARDSON, WAY, WRIGHT, CALLAND

PROFESSOR RICHARDSON

1-2. Mediæval History. *Year Course.*

The general history of Continental Europe, from the fall of the Roman Empire of the West to the sixteenth century. In this course are included the bases for subsequent development existing at the fall of the Empire; mediæval relations of church and state; feudalism; crusades; the beginnings of modern nationalities; mediæval culture. Recitations and lectures.

Freshman Year, three hours. Given annually.

4. History of Europe from 1500 to 1789.

A general course covering the periods of the Protestant and Counter Reformation, the Religious Wars, and the Dynastic Rivalries of Europe up to the French Revolution. Considerable attention will be paid to colonial expansion.

Second Semester, Sophomore Year, three hours. Given in 1911-12, and 1912-13.

7-8. English History. *Year Course.*

7. First Semester.
8. Second Semester.

Lectures, written exercises, and readings on the political and constitutional history of England, from the Norman Conquest to recent times. The outlines of the present system of English government are first studied as described for example in Dicey's *Introduction to the Study of the Law of the Constitution.* An attempt is then made to trace the development of this system through its several stages and environments.

Junior or Senior Year, three hours. Given annually.

9-10. Recent English History. *Year Course.*

9. First Semester.
10. Second Semester.

Junior or Senior Year, three hours.

11-12. English Constitutional History. *Year Course.*

11. First Semester.

12. Second Semester.

Senior Year, three hours, accompanying or following course 7-8.

Note to Courses 9-10 and 11-12. One or the other of these courses will be offered during 1912-13 if there be sufficient demand for them; both courses will not be given the same year.

PROFESSOR WAY

5. The French Revolution and Napoleonic Wars.

A general study of the Revolutionary Regime.

First Semester, Sophomore or Junior Year, three hours. Not given in 1912-13.

6. Modern Europe since 1815.

Second Semester, Sophomore or Junior Year, three hours. Not given in 1912-13.

21-22. American Political History. *Year Course.*

21. First Semester 1783-1829.

22. Second Semester. 1829-1876.

A general course in the constitutional and political history of the United States from the Confederacy to the close of the Reconstruction Period. Lectures, text-book, recitations, collateral reading and topics prepared from original sources.

Junior and Senior Year, three hours. Given annually.

28. Recent History of the United States, 1876-1910.

A study of the recent social and economic organization of the United States with special reference to the trend towards nationalization, commercial and colonial expansion. Lectures, discussions, conferences and collateral readings.

Second Semester, Junior and Senior Year, three hours. Given in 1912-13.

24. History of the West to 1840.

A study of the conditions of westward migration and the economic, political and social aspects of the occupation of the United States. A practical interpretation of American expansion which alone gives a proper understanding of the American nation of today. Lectures, collateral readings and topics.

First Semester, Junior and Senior Years, three hours. Given in 1911-12, and in alternate years.

30. History of the Trans-Mississippi West, 1840-1910.

A study of the Trans-Mississippi West with reference to its occupation, development, political ideas, and relations with the remaining part of the United States and the world. Lectures, collateral readings and topics.

Second Semester, Junior and Senior Years, three hours. Given in 1911-12, and in alternate years.

31-32. Diplomatic History of the United States, 1783 to 1910. *Year Course.*

A study of the actual negotiations between the United States and other countries and of the progress of international law as far as it has affected or been affected by the United States. Lectures, collateral readings and topics.

Junior or Senior Year, three hours. Given in 1912-13, and in alternate years.

25. Teachers' Course.

Lectures and text-book on the teaching of History in secondary schools. Class visitation; lesson plans; practice in teaching a class. Review of important periods of History taught in high schools.

Second Semester, Junior or Senior Year, two hours. This course is intended only for those who intend to teach History in secondary schools. (See under Pedagogy 10).

PROFESSOR WRIGHT

15. Greek History.

Lectures and recitations emphasizing those Greek events and institutions that have had the most to do with shaping present ideals and modern culture. The studies will center in the Athens of the fifth century B. C.

First Semester, Freshman Year, three hours. (See note under 16).

PROFESSOR CALLAND

16. Roman History.

Rome's early struggle for existence, the extension of her power over Italy and her conquest of the ancient world. Emphasis will be laid upon Rome's military system, her provincial administration, the development of her literature and art, the economic causes which undermined the Republic, the reception of Christianity, the greatness and decline of the Empire to the fifth century.

Second Semester, Freshman Year, three hours. Readings, recitations, and lectures. Given in 1911-12, 1912-13.

The courses in Ancient Classical History 15 and 16 as outlined above are designed to form a continuous year-course; they may, however, be elected by the semester.

MAJOR REQUIREMENT. Twenty-four hours constitute the requirement for a Major in History. Six of these must be Mediæval History 1-2 taken during Freshman or Sophomore year. The remaining 18 hours may be elected from the other courses offered in the department, barring course 25, except that (a) Greek and Roman History (15-16) from considerations of continuity, will be accepted, when taken in the Freshman year, as partially fulfilling the Major requirement. (b) Both English History (7-8) and American History (21-22) must be taken some time during Junior or Senior year. (c) Twelve hours deemed consecutive by the department must be taken during Junior and Senior years.

Correlated Work. Correlated with History, the department recommends courses in Economics, Government, and in Modern Literatures. The courses in Art, Biblical Literature, and the History of Philosophy have proved most helpful to students in European History.

LATIN

Professor Calland, Professor Burr

PROFESSOR BURR

1-2. Elementary Latin. *Year Course.*

This course is offered in two parts, *a* and *b*, each in alternate years.

1*a*. First Semester. Latin Grammar, Reading Exercises, comparison of Latin with English.

2*a*. Second Semester. Cæsar's *Gallic War*, four books. A review of noun forms and construction, Latin derivatives, prose composition.

The year's work will meet the wants of those who need the equivalent of two years of High School Latin for advanced courses in English, for the study of medicine or law, for college entrance in language, or for the further study of Latin.

1*b*. First Semester. Four to six of Cicero's orations, a review of forms and syntax, the Roman Republic, sight Latin and prose composition.

2*b*. Second Semester. Four to six books of Vergil's *Aeneid*, Latin prosody and mythology. An important end of the year's work is a better knowledge and use of English through the Latin.

Part *b* enables those who have taken *a*, or two or three years in the High Schools, to make four units of Latin and to enter Latin courses 3 and 4.

Freshman Year, four hours. Part *a* is given in 1911-12. Part *b* will be offered next in 1912-13.

PROFESSOR CALLAND

3. Cicero and Livy.

Cicero: *De Senectute* will be carefully translated and studied. Training in pronunciation; syntax of the subjunctive. Livy: Portions of book XXI. Special studies in the Second Punic War, such as the art of war among the Romans, Hannibal as a military genius, etc.; Livy's literary style and his worth as a historian.

First Semester, Freshman Year, three hours.

4. Horace.

Most of the Odes and a few of the Epodes will be read. Work in scansion and training in metrical translation; critical study of Horace's life and literary style; Roman social and political life in the time of Augustus.

Second Semester, Freshman Year, three hours.

5. Plautus, Terence, and Seneca.

One play of Plautus will be translated carefully; one of Terence and one of Seneca will be read more rapidly. Emphasis is laid on the linguistic and literary importance of these authors; idiomatic translation. Frequently a Latin comedy has been translated into English verse by the class.

First Semester, Sophomore Year, three hours.

6. Tacitus.

The *Agricola* and *Germania*, and selections from the *Annales*. Peculiarities of the author's style and syntax; readings by the instructor from other Latin authorities which may throw more light upon the history of the early Germanic race and its institutions.

Second Semester, Sophomore Year, three hours.

7. Roman Antiquities.

A course of lectures on the general topic: Public and Private Life Among the Romans. The Roman assemblies, officials, temples, basilicas, thermæ, aqueducts, roads, the family, house, food, dress, schools, amusements, etc., are treated somewhat in detail. The work is illustrated by lantern slides. This course is of much practical as well as cultural value. No knowledge of Latin is required.

First Semester, Sophomore, Junior, or Senior Year, three hours. Given every year.

8. Latin Composition.

Latin forms and syntax are taken up in the grammars and thoroughly reviewed. Short sentences illustrating points of syntax are duly emphasized. More formal exercises in composition follow, the work being, for the most part, based on writings of Cicero previously read by the class. Courses 7 and 8 are required of students making Latin their Major.

Second Semester, Junior or Senior Year, three hours. Given in 1912-13.

16. Advanced Latin Composition.

A continuation of course 8. Extended passages of English prose will be turned into classical Latin; word order and idiom receive attention; simple conversation in Latin.

Second Semester, Senior Year, one or two hours. Not given in 1912-13.

9-10. Translation at Sight.

9. First Semester.
10. Second Semester.

Selections from various Latin authors, such as Cæsar, Nepos, Sallust, Ovid, Vergil, Pliny the Younger, and Aulus Gellius, will be translated as rapidly as possible. The object of the course is to enable the student to translate average Latin with greater comfort and rapidity. The reading of Latin without translating will be a feature of the course.

Sophomore, Junior, or Senior Year, one hour. Given whenever elected by six or more students.

11. Cicero.

The *De Officiis* or *Disputationes Tusculanae* will be read with special reference to their ethical teachings and value. Assigned topics and discussions.

First Semester, Junior or Senior Year, two hours. Given in 1912-13.

13. Horace.

Selections from the Satires and Epistles. A study of Horace's philosophy of life; the influence of Greek philosophical schools on Horace's teachings. Papers on special topics.

First Semester, Junior or Senior Year, two hours. The course will be given occasionally instead of course 11.

12. Juvenal and Petronius.

Selections from Juvenal's Satires and Petronius' *Cena Trimalchionis*. Studies in Roman satire; Roman life under the Cæsars.

Second Semester, Junior or Senior Year, two hours. Given in 1912-13.

14. Lyric and Elegiac Poetry.

Selections from Catullus, Ovid, Propertius, and Tibullus. The works and style of these writers will serve as a basis for the discussion of the literature in general of the Augustan Age.

Second Semester, Junior or Senior Year, two hours. This course will be given occasionally instead of course 12.

15. Lucretius.

A seminar course, reading Book V and other books of *De Rerum Natura*. Lucretius as a man, teacher, poet, and philosopher. Epicureanism among the Greeks and Romans; the atomic theory as a forerunner of modern scientific views.

First Semester, Junior or Senior Year, two hours. Given in 1913-14.

PROFESSOR BURR

18. Teachers' Course.

A careful review of portions of Cæsar, of the syntax of cases, and of Latin pronunciation; the ends and methods of the work in the first and the second year of Latin; class-visitation and practice teaching; comparison of text-books.

Second Semester, Senior Year, one hour.

20. Teachers' Course.

A review of one oration of Cicero, and of one book of the Aeneid, of verb forms and syntax, and of versification; the ends and methods of the study and the teaching of these authors; the Latin and the English as means of the expression of thought; class-visitation and practice teaching; suggestions as to text-books and reference works.

Second Semester, Senior Year, one hour.

Note.—Those planning to elect both 18 and 20 may take one in the Junior year. (See under Pedagogy 10).

LIBRARY SCIENCE

Miss Butlin

1. Library Science.

A systematic study of the resources of a modern library, including reference books and bibliography, indexes, classification, cataloguing, shelf department, periodicals and government documents, with a general survey of the history of books and libraries. The facility thus gained in the use of a library aids the student in pursuing the various subjects in the college curriculum and in doing any form of independent research work. The study of library methods included in the course qualifies those expecting to teach to take charge of school libraries. Lectures, seminars and practice work in the library.

First Semester, two hours. Open to all classes.

MATHEMATICS

Professor T. A. Smith, Professor Hamilton

1. Plane and Spherical Trigonometry; forms a *Year Course* with 2.

This course takes up the elements of Trigonometry on the plane and on the sphere.

First Semester, Freshman Year, three hours. Given annually. Pre-requisite, Solid and Spherical Geometry.

2. College Algebra; forms a *Year Course* with 1.

Much attention is given to graphical representation of linear equations and equations of the second degree. Mathematical induction and the binomial theorem for positive integral exponents, permutations and combinations, complex numbers, and the theory of equations are among the subjects studied.

Second Semester, Freshman Year, three hours. Given annually. Pre-requisite, one and one-half years in Algebra.

1a-2a. Review of Algebra, Trigonometry, College Algebra. *Year Course.*

1a. First Semester.
2a. Second Semester.

A course open to those who have presented for entrance to College both Plane and Solid Geometry, and only one year of Algebra. The work starts with a review of elementary Algebra, such as is usually given in the third semester of high school Algebra, continues with Plane and Spherical Trigonometry, and College Algebra, covering practically the same ground as course 1-2.

Four hours. Pre-requisites, Plane and Spherical Geometry and one year of Elementary Algebra. Given annually.

1b-2b. Solid and Spherical Geometry, Trigonometry, College Algebra. *Year Course.*

1b. First Semester.

2b. Second Semester.

A course for those who have presented for entrance only Plane Geometry and either a year, or year and a half of Algebra. The work starts with Solid Geometry, continues with the Geometry of the sphere, and takes up in addition practically the same matter as course 1-2.

Four hours. Pre-requisite, one year of Plane Geometry. Given annually.

PROFESSOR SMITH

25-5. Analytic Geometry and Calculus. *Year Course.*

25. First Semester. Analytic Geometry.

An elementary treatment of the fundamentals of Analytic Geometry, of two and three dimensions, designed to equip the student for work in Calculus, and for Engineering courses.

5. Second Semester. Calculus.

This, with course 6, makes a complete elementary course in Differential Calculus. Since the Calculus lies at the foundation of the modern treatment of the quantitative sciences, those who wish to acquire more than the mere elements of Physics, Engineering, Chemistry, and Astronomy should take courses 25, 5 and 6; these are required of all whose Major is in Mathematics.

Sophomore or Junior Year, three hours. Pre-requisites, courses 1 and 2.

6. Calculus.

A continuation of course 5 which should be taken by all taking that course, as it will be, to a large extent, the fruition of the course in Calculus. Course 5 is necessarily of a preparatory character, so that the student realizes the value of the study of Calculus in course 6.

First Semester, Junior or Senior Year, three hours. Pre-requisite, course 25-5.

7. Calculus and Differential Equations.

Integral Calculus and an elementary treatment of Differential Equations, with applications to Physics and Mechanics. This should be taken by students completing course 6, since it is necessary to a well-rounded course in Mathematics.

Second Semester, Junior or Senior Year, three hours.

9-10. Theoretical Mechanics, or Applied Mathematics. *Year Course.*

9. First Semester.
10. Second Semester.

A valuable course to those who wish to realize what Mathematics can do in its applications to problems of Nature. It should be taken by those who mean to follow some branch of Engineering. The entire year may be given to Mechanics, or the latter portion to a discussion of the elements of Fourier's series, the Theory of Potential or the Theory of Functions.

Senior Year, three hours. Pre-requisites, courses 5 and 6, and Physics 1-2.

21. Elements of Analytical Geometry and Calculus.

This course is open to those who have taken 1-2 and do not wish to take the longer courses, 25, 5, and 6, yet desire a fair preparation for teaching Mathematics in high schools. It is also recommended to students in Economics and Chemistry, as giving the essentials of Mathematics required in certain phases of those subjects. Students who are looking forward to Engineering courses, or who may wish to take a Major in Mathematics, should elect courses 25, 5, and 6, instead of this briefer course.

First Semester, Sophomore, Junior, or Senior Year, three hours. Pre-requisite, course 1-2.

22. History of Mathematics and Teaching of Mathematics.

This course is designed to give a fair idea of the historical development of the science of Mathematics, as well as of its scope and extent. It is especially recommended to those who expect to teach Mathematics, or to go beyond the bare elements of the subject. The course may be taken separately, but it is best taken in connection with course 21.

Second Semester, Sophomore, Junior, or Senior Year, three hours. Pre-requisite, course 1-2. A knowledge of course 25-5 is desirable.

PROFESSOR HAMILTON

13-14. Descriptive Geometry. *Year Course.*

13. First Semester.

14. Second Semester.

The course deals with the mathematical theory of the representation of objects on a plane. It includes a thorough study of orthographic projection, some practice in perspective, and a somewhat complete view of the various methods used in map making, such as spherical, conic and other forms of projections.

Three hours. Pre-requisite, Mechanical Drawing. Given in 1913-14, and in alternate years.

23-24. Seminar in Practical Mathematics.

23. First Semester.

24. Second Semester.

The work of the course is based upon Mellor's *Higher Mathematics for Students of Chemistry and Physics*, the larger part of which is read by the class. This is supplemented by selections from Saxelby's *Practical Mathematics* and from other sources. The work is given in the form of lectures, recitations, and reports.

Senior Year, two hours. The course may be dropped by the student at the end of the First Semester. Given in 1913-14.

MUSIC

Assistant Professor Sleeper

1-2. Elementary Music. *Year Course.*

1. First Semester.
2. Second Semester.

Notation, intervals, keys, scales, ear training.

Freshman Year, one hour.

3-4. Harmony. *Year Course.*

3. First Semester.
4. Second Semester.

Some ability in piano playing is required of students who elect Harmony.

Sophomore Year, three hours. Pre-requisite, course 1-2.

11-12. Counterpoint. *Year Course.*

11. First Semester.
12. Second Semester.

In courses 1-2, 3-4, and 11-12, emphasis is laid upon original work.

Junior or Senior Year, three hours. Pre-requisite, courses 1-2, 3-4. Given in 1913-14, and in alternate years. Not given in 1912-13.

7-8. General History of Music. *Year Course.*

7. First Semester.
8. Second Semester.

Junior or Senior Year, three hours. No pre-requisite. Given in 1912-13, and in alternate years.

13-14. The Appreciation of Music. *Year Course.*

13. First Semester.
14. Second Semester.

Analytical study of masterpieces from the point of view of the listener.

Junior or Senior Year, three hours. No pre-requisite. Given in 1913-14, and in alternate years. Not given in 1912-13.

15-16. Public School Music. *Year Course.*

Designed primarily for teachers. Sight reading, ear training, dictation, child voice, school song, conducting.

Junior or Senior Year, two hours. Pre-requisite, course 1-2. Given in 1912-13, and in alternate years.

PEDAGOGY

Professor Burr

1. Applied Psychology.

A course in the conditions and principles of mind-development in the process of education. Lectures, text-book, assigned readings, and application to school problems. These practical applications of Psychology are meant to be helpful not only to those who may teach, but to all whose work may be with the minds of men, as in the professions of medicine, the ministry, and the law.

First Semester, Junior or Senior Year, three hours. Pre-requisite, Psychology 2.

2. Methods and Organization.

A study of the ends and methods of class-instruction in secondary schools, of courses of study, of school organization, and of city and state systems of education. Lectures, text-book, readings, lesson-plans, practice teaching, and school visitation.

Second Semester, Junior or Senior Year, three hours. Pre-requisites: For Juniors, Pedagogy 1; for Seniors, Psychology 2.

4. History of Education.

A study of the means and aims of Greek and of Roman education, and of the educational reformers of the seventeenth, eighteenth, and nineteenth centuries. Text-book and assigned readings.

First Semester, Junior or Senior Year, two hours. The above courses 1, 2 and 4 are given each year.

6. Religious and Moral Education.

The moral and religious life; its psychology; its child, adolescent and adult types; the means and methods of its unfolding and growth in the home, the Sabbath School, the Public School, and in the various forms of religious work. Lectures, readings and discussions.

The purpose of the course is a study of the principles and plans of moral and religious training for helpful service in the home, as teachers, Y. M. C. A. and Y. W. C. A. secretaries and assistants, as missionaries, pastor's assistants, and as members of church and society.

Second Semester, Junior or Senior Year, two hours. Pre-requisite for credit in the course, Psychology 2.

10. Teachers' Course.

Teachers' Courses of one or two semester-hours are offered in Botany, Chemistry, German, History, Latin, Physical Geography, Physics, and Zoology. Their purpose is to give some special preparation for teaching one or two subjects in high schools and academies. Descriptions of these courses will be found under the respective departments. Only two semester-hours of these courses are accepted by the College towards the 120 hours required for graduation. Such courses are to be elected under Pedagogy 10 and do not count towards a Major or other requirements of the several departments.

PHYSICS

Professor Culver

The general course, 1-2, is designed to meet the requirements of those who wish to pursue the subject of Physics as a part of a liberal education, and also of those who desire to lay a foundation for advanced study, or to enter engineering courses.

Course 7 is designed to meet the needs of those who expect to teach Physics or other of the physical sciences.

Courses 1-2, 3, 5, and 15-16 should be taken by those expecting to study medicine, electrical engineering, or to teach physics.

Courses 11 to 16 inclusive should be taken by those planning to enter the other Engineering professions.

A thesis, for which three hours credit is given, is required of all students majoring in this department.

1-2. General Physics. *Year Course.*

1. First Semester.
2. Second Semester.

A general elementary course, covering Mechanics, Heat, Wave-motion and Sound, Light, Electricity, and Magnetism. Lectures and recitations based on a standard text, accompanied by a systematic course in quantitative laboratory practice.

Sophomore Year, four hours, consisting of three hours of lectures or recitations and one three-hour laboratory period. Pre-requisites, Mathematics 1 and 2.

3. Theory of Experimental and Applied Electricity.

A course of lectures, with collateral reading, on the fundamental principles of modern electrical appliances and machinery, together with a discussion of electric waves and their application to wireless telegraphy and telephony, the conduction of electricity through gases, and radioactivity.

First Semester, Junior or Senior Years, three hours. Pre-requisites, course 1-2, and Mathematics 5-6. Given in 1912-13 and in alternate years.

5. Electrical Measurements.

A laboratory course, covering the refined measuring of resistance, electromotive force, current, inductance, power; the standardization and calibration of the various electrical meters; and the testing of the magnetic properties of iron.

Second Semester, Junior or Senior Year, three hours. Pre-requisite, course 1-2. The student is also urged to take course 3 before electing the course in Electrical Measurements. Given in 1912-13, and in alternate years.

4. Light.

An advanced study of the theory of physical optics, covering dispersion, absorption, interference, diffraction, polarization, magneto-optics, fluorescence, and phosphorescence. The course will also include a treatment of the theory of optical instruments. Lectures and recitations based on Wood's *Physical Optics*, together with collateral reading.

First Semester, Junior or Senior Year, three hours. Pre-requisite, course 1-2 and Mathematics 5-6. Given in 1913-14, and in alternate years.

7. Laboratory Manipulation. Teachers' Course.

A course in which practical training will be given in the construction, calibration, and adjustment of laboratory apparatus. The course will include practical instruction in wood and metal-turning, bench work, glass working, and photography. Attention will also be given to methods of conducting laboratory work in Physics in secondary schools.

First Semester, Junior or Senior Year, two hours. Prerequisite, one year of College Physics. Given in 1911-12, and in alternate years.

9. Musical Acoustics.

The subject matter of this course constitutes the physical theory of music, and will involve a treatment of the physical basis of pitch, chords, scales, quality, and the law of vibration of strings, plates, rods, and air in pipes. Lectures with illustrative experiments.

First Semester, Junior or Senior Year, three hours. Given in 1912-13, and in alternate years.

11-12. Theoretical Mechanics. *Year Course.*

11. First Semester.

12. Second Semester.

The course will cover the fundamental principles of statics and dynamics. The subject will be treated from an engineering standpoint, special attention being given to practical problems. Lectures, and recitations based on Jeans' *Theoretical Mechanics.*

Junior or Senior Year, three hours. Pre-requisites, course 1-2 and Mathematics 5-6. Given in 1913-14, and in alternate years.

13-14. Applied Mechanics. *Year Course.*

13. First Semester

14. Second Semester.

Lectures, and recitations based on Hancock's *Applied Mechanics for Engineers.*

Junior or Senior Year, three hours. Pre-requisites, course 1-2 and Mathematics 5-6. Given in 1912-13, and in alternate years.

15-16. Advanced Physical Measurements.

15. First Semester.

16. Second Semester.

A laboratory course consisting of advanced experiments in mechanics, heat, sound, and light.

Junior or Senior Year, two hours. Elected by the semester. Pre-requisite, Physics 1-2. Given annually.

POLITICAL SCIENCE

PROFESSOR WAY, JUDGE ROSA

PROFESSOR WAY

1-2. American Government and Politics. *Year Course.*

1. First Semester. American Federal Government and Party System.

A study of the American Government, its executive, legislative and judicial departments, together with a study of the relation of the states to the nation and of the government of the states and territories, and the American Party System, including a sketch of parties, party leaders, and of presidential elections, with a study of party machinery and of current party problems.

2. Second Semester. State, City, and Local Governments.

With the study of general features will be discussed the recent tendencies and improvements in state government, the relation of political parties thereto, and the needed improvements in City and Local government and the proposed plans.

This course is the introductory course in Political Science. Sophomore, Junior or Senior Year, three hours. Given annually.

3. International Law.

The main Topics in Scott's *Cases on International Law* will be studied and briefs of the important cases will be prepared and recitations thereon held in class. For additional study, Westlake, Oppenheim and Lawrence's *International Law* will be used.

First Semester, Junior or Senior Year, three hours. Given in 1911-12, and in alternate years.

4. Municipal Government in Europe and the United States.

The course discusses the chief causes of urban growth during the eighteenth century, the definition of the city as founded, the study of the development of the city in the United States, the position of the city in the United States, the contrast with the city in Europe, and the administration of cities. Recitations, lectures, and written exercises.

Second Semester, Junior or Senior Year, three hours. Not given in 1912-13.

5-8. American Diplomacy, 1783-1910. *Year Course.* Open to those who have taken or are taking the course in American Political History (History 21-22). The course treats of the important international relations of America, from the establishment of the United States to the present day. Recitations, lectures, and written work.

Junior or Senior Year, three hours. Given in 1912-13, and in alternate years.

6. Political Theories and Philosophy of the State. A study of the historical development of theories of the State, combined with an analysis of the political theories of the more important writers on the science of government and statesmanship. An examination of the nature, origin, form, and functions of the state, together with an analysis of the structure and province of government. Recitations, lectures, and written work.

Second Semester, Junior or Senior Year, three hours. Given in 1912-13, and in alternate years.

7. Constitutional Law of the United States. This course aims to give the student an intelligent conception of the Constitutional Law of the United States, both state and federal. A standard text is used, and briefs are prepared by the students upon the famous legal decisions of the Constitution, as found in Thayer's or McClain's *Cases* or Dillon's *Marshall's Decisions.* The course can be taken most satisfactorily after the student has had courses 1-2 and History 21-22.

First Semester, Junior or Senior Year, three hours. Given in 1912-13, and in alternate years.

10. European Governments. A study of the constitutional organization of the principal governments of Europe, especially England, France, and Germany, with considerable attention to political parties and current political questions.

Second Semester, Junior or Senior Year, three hours. Given in 1912-13, and in alternate years.

JUDGE ROSA

9. Commercial Law.

This course aims to present in a practical manner the Law of Contracts and Business Relations. An authoritative law text is used and cases are studied.

Second Semester, Junior and Senior Years, two hours.

A Major in Political Science consists of 21 hours. Courses 1-2, 3 or 7, and 5-8 are required of all Majors. They should be taken in the order indicated. For all Majors, courses 1-2 should be taken in Sophomore year.

Eighteen hours should be elected under the advice of this department from the following courses, as correlated subjects: English History 7-8, English Constitutional History 11-12, American Political History 21-22, Modern European History since 1815, 6; Economics 21-22, Industrial Corporations 8, Sociology 9, Financial History of the U. S. 14, History of Modern Philosophy 6.

All Majors should be well grounded in the ancient languages and should have a good reading knowledge of French and German.

A combined Major in Political Science and American History may be taken, by electing with the advice of the department of Political Science, courses 1-2, History 21-22 (American Political) with 9 additional hours in Political Science, American History, or both, and 18 selected hours of correlated studies.

PSYCHOLOGY AND PHILOSOPHY

PROFESSOR WAUGH

Psychology

2. Elementary Psychology.

An introductory course, giving, by means of lectures, recitations, and demonstrations, a general survey of the essential facts and fundamental laws of mind. Prerequisite to all other courses in Psychology. Texts: Pillsbury and James.

First Semester, Junior or Senior Year, three hours.

Second Semester, repeated, open to Sophomores, Juniors and Seniors. Psychology 2 and Philosophy 1 may be elected by Sophomores only after consultation with the head of the department and the student adviser.

3-4. Experimental Psychology.

This course gives an introduction to experimental Psychology, and aims to familiarize the student with modern psychological methods, apparatus, and results. Typical experiments in the psychology of the senses, feeling, and movement. Lectures, laboratory work, and required readings.

Junior or Senior Year, three hours. Pre-requisite, course 2. Elective by the semester.

6. Comparative and Genetic Psychology.

A systematic study of mental development in the race and in the individual. The course will sketch the evolution of mind in the animal series, and trace the growth of mental functions in childhood, with special reference to educational theory. Lectures, reports, and paper on some selected topic. Texts: Washburn, *The Animal Mind*, Preyer, *The Infant Mind.*

Second Semester, Junior or Senior Year, three hours. Given in 1911-12, and in alternate years.

7. Reading Course.

From time to time a Seminar course may be organized, dealing with some particular topic, or reviewing the articles in current psychological journals.

Philosophy

1. Logic.

An introduction to the study of the elements of logic, with some reference to the problems of philosophy. The course aims to give the student an idea of the processes of formal logic, and a brief sketch of the inductive method. Lectures and exercises. Text: Creighton.

First Semester, Sophomore, Junior or Senior Year, three hours.

5. History of Ancient and Mediæval Philosophy.

A study of the development of philosophic thought, beginning among the Greeks and extending to the Renaissance. The method of instruction is largely by lectures. An elementary text is read, and considerable reading will be required from the sources. A thesis is required. Texts: Rogers, *Student's History of Philosophy*, Bakewell, *Source Book in Ancient Philosophy.*

First Semester, Junior or Senior Year, three hours.

6. History of Modern Philosophy.

The growth of European thought, as shown in typical systems from Bacon and Descartes through Kant, and important tendencies in post-Kantian thought. Lectures and required readings. Texts: Rogers, Rand, *Modern Classical Philosophers.* This course may be taken independently of course 5.

Second Semester, Junior or Senior Year, three hours.

7. Ethics.

A systematic course, investigating the psychological basis of conduct, tracing the growth of moral ideas in the race, and discussing various theories of the moral standard. Text: Dewey and Tufts.

Second Semester, Senior Year, three hours. Pre-requisite, Ethics 1.

8. Metaphysics.

A critical introduction to modern philosophical problems. The nature of being, the ground of knowledge, monism and pluralism, etc., and a view of pragmatism. Text:

Fullerton. Readings in Taylor, Royce, Dewey, James, and others.

Second Semester, Junior or Senior Year, three hours. Not given in 1911-12.

9. Aesthetics.

This course aims to develop a general theory of art-work which shall apply to all the fine arts. The psychology of the æsthetic state is discussed and special attention is given to the problems of unity, symmetry, rhythm, etc.

Second Semester, Junior or Senior Year, three hours. Pre-requisite, Psychology 2. Given when desired by a sufficient number of students.

PUBLIC SPEAKING

ASSISTANT PROFESSOR CRAWFORD

1-2. Elementary Public Speaking. *Year Course.*

1. First Semester.
2. Second Semester.

This is an elemental course and a pre-requisite to all other work except courses 5, 10 and 11. The fundamentals aimed at are as follows: thought conception, power of analysis, orderly arranging of one's thoughts, mental grasp, self-control before the public and the effective delivery of a definite message. Incidentally such technique as the voice demands together with the correction of platform bearing complete the course. The work is developed by practical exercises and short original speeches.

Freshman Year, one hour.

5. Argumentation.

A study of the principles of analysis, brief-drawing, evidence, and persuasive presentation, designed to give the student ability in constructive thinking and in testing the arguments of others. Three long forensics and numerous short exercises are required. Text-book, lectures, and outside readings. This course is pre-requisite to Public Speaking 3, 6, and 9.

First Semester, Sophomore or Junior Year, three hours.

6. Debating.

A practical and critical course in debate. Students appear in three debates before the class. The gathering of material, brief-drawing, and construction of the argument are done under the personal direction of the instructor. Each student also speaks several times from the floor. The theory of debate, including burden of proof and methods of proof and refutation, are studied, together with the elements of effective presentation upon the platform.

Second Semester, Sophomore, Junior, or Senior Year, three hours. Pre-requisite, course 5. As the size of the class is limited, the consent of the instructor must be obtained for entrance to the course.

7-8. Extempore Speaking. *Year Course.*

7. First Semester.
8. Second Semester.

Students speak regularly before the class upon topics that have been assigned for investigation. The form of a short extempore speech, to meet varying situations, is first discussed critically, and then practiced by the class. The aim constantly kept in mind is to stimulate students to think out their own opinions, to use the library as a storehouse of material, and to acquire fluency in platform presentation.

Junior or Senior Year, two hours. Pre-requisite, course 1-2.

3-4. The Forms of Public Address. *Year Course.*

A study is made of the more important kinds of public address, including the eulogy, after-dinner speech, political speech, and speech for a special occasion. Under each form an analysis of masterpieces and a study of principles precede the composition and delivery of addresses by members of the class.

Junior or Senior Year, three hours. Pre-requisite, course 5.

9. Political Speaking.

This course will be offered only to those specially qualified for the work. The Presidential and Congressional elections furnish the background for the course. The campaign questions, methods and speeches will be studied and opportunities to address political assemblies given.

First Semester, Senior Year, two hours.

10. Literary Interpretation.

This is a fundamental course in expressional reading. The purpose is to give oral expression to those thoughts in literature that too often are only faintly realized. Only Nature's and Truth's own response is developed. Expression for the real message's sake and not for art's sake is sought.

Sophomore, Junior, or Senior Year, two hours. (For Young Women.)

11. Public Speaking for Young Women.

This course aims to fit young women for all those public and semi-public occasions at which they might be called upon to speak. Addresses varying with the social occasions will be studied, composed and delivered. The organizing and conducting of public and social meetings together with incidental technique of the voice complete the aims of the course.

Sophomore, Junior, or Senior Year, two hours.

RELIGIOUS HISTORY

Professor Deane

2. The History and Science of Religion.

A study of the religious experiences of various races and of the different periods of individual and race development. Special attention is given to the development of the Hebrew religion and to the relation of Christianity to the other world-religions of today.

Second Semester, Sophomore, Junior, or Senior Year, three hours.

3. Christianity in the Roman Empire.

The growth and development of Christian life, thought and organization in the first four centuries of the Christian era. The course centers about the leaders of the early Church in its conflict with pagan ethical ideals and social customs, in the expression of the Christian message in Greek forms of thought, and in the rise of Roman and imperial ideas of government and discipline in the Church.

First Semester, Sophomore, Junior, or Senior Year, two hours.

RHETORIC

ASSISTANT PROFESSOR CLANCY, MISS ADAMS, MR. MERRIAM

1-2. Rhetoric. *Year Course.*

The theory and practice of composition in its various forms. Text-books, lectures, and analysis of illustrative specimens selected from the masters of prose style assist the student in securing a knowledge of the principles of good writing. These principles are applied constantly in theme-writing. Each student meets the theme-correctors in frequent individual conferences. Students who are found to be deficient in spelling, punctuation, grammar, or sentence-structure will be required to take special work to make up the deficiency.

Freshman Year, two hours. Required of all students.

ASSISTANT PROFESSOR CLANCY

3. Advanced Composition.

For students who desire further practice in expository and descriptive writing. Discussion of principles, examination of specimen essays, and reports on assigned readings. In addition to short themes, several papers of considerable length are required.

First Semester, Sophomore, Junior, or Senior Year, three hours.

10. Journalistic Writing.

This course gives a considerable amount of rapid practice in the various forms of journalistic writing, such as news items, editorials, criticisms, and the like. There is also some examination of the purpose and methods of the modern newspaper. Short daily themes are required.

Second Semester, Sophomore, Junior, or Senior Year, two exercises, counting as three hours. Open to those who have completed course 1-2.

4. Short Stories.

Several short stories are written by each member of the class. Lectures and assigned readings on the principles and history of the short story, accompanied by the reading of a number of specimens.

Second Semester, Junior or Senior Year, three hours. Open to those who have attained a good rank in course 1-2.

8. Verse Composition.

Regular weekly practice in writing or translating verse in standard forms. Instruction is given by individual consultation and criticism. This course may be elected only by consent of the instructor.

Second Semester, Sophomore, Junior, or Senior Year, two hours.

ROMANCE LANGUAGES

ASSISTANT PROFESSOR YOUNG, MR. HORST

1-2. Beginning French. *Year Course.*

1. First Semester.
2. Second Semester.

The elements of French grammar; the reading of easy texts; drill in pronunciation; composition.

Freshman or Sophomore Year, three hours.

ASSISTANT PROFESSOR YOUNG

5-6. French Drama. *Year Course.*

5. First Semester.
6. Second Semester.

General survey of the drama, from the earliest sources to the present day.

Junior or Senior Year, three hours. Pre-requisite, course 3-4, or an equivalent. Given in 1912-13.

7-8. Conversation and Composition. *Year Course.*

The practical handling of the language, written and spoken. Work carried on in French.

Junior or Senior Year, three hours. Pre-requisite, course 3-4, or an equivalent.

9-10. General Survey of French Literature. *Year Course.*

9. First Semester.
10. Second Semester.

Reading of representative works from the Renaissance to the present day. Lectures, outside reading, and reports.

Given in 1911-12.

11-12. Masterpieces of French Literature of the Nineteenth Century.

11. First Semester.
12. Second Semester.

Study of the great works of the nineteenth century. Lectures, assigned readings, and reports.

NOTE.—Any two of the courses 5-6, 9-10, 11-12, may be taken in successive years.

MR. HORST

3-4. French Readings. *Year Course.*

3. First Semester.
4. Second Semester.

Modern short stories and dramas. Lectures on the development of French literature. Conversation and composition.

Sophomore, Junior, or Senior Year, three hours.

ASSISTANT PROFESSOR YOUNG

13-14. Elementary Italian. *Year Course.*

13. First Semester.

14. Second Semester.

Elements of Grammar, reading of easy texts, drill in pronunciation, composition.

Sophomore, Junior, or Senior Year, three hours. To alternate with Spanish 15-16. Given in 1912-13.

15-16. Elementary Spanish. *Year Course.*

15. First Semester.

16. Second Semester.

The course consists of the elements of grammar; the reading of easy texts; drill in pronunciation, and composition.

Sophomore, Junior, or Senior Year, three hours. Omitted in 1912-13.

17-18. Advanced Spanish. *Year Course.*

17. First Semester.

18. Second Semester.

Reading modern novels and plays. According to the wishes of the class, a part of the time will be given to conversation or an introduction to Commercial Spanish.

ZOOLOGY

ASSOCIATE PROFESSOR KUNKEL, MR. HAINES

1. Physiology.

This course of recitations, supplemented by lectures and demonstrations, is intended to present to the student the functions of the human body, such as movement, sensation, digestion, secretion, excretion, respiration, and circulation. Especial attention is called to the relation of physiology to public and personal hygiene. The course is recommended especially for students contemplating Teaching or Medicine as a career.

First Semester, three hours. Pre-requisite, Biology 1 and 2.

2. Invertebrate Zoology.

By means of dissections in the laboratory, supplemented by lectures and quizzes, the structure and relationships of the principal groups of invertebrates together with their adaptations are presented to the student. Those forms which are of economic importance receive more careful attention.

Second Semester, three hours. Pre-requisites, Biology 1 and 2.

3. Vertebrate Morphology.

This course is designed to give the student by means of practical work in the laboratory, supplemented by lectures and quizzes, a first hand knowledge of the structure of the vertebrate body and at the same time practice in anatomical technique. Representatives of the various classes of vertebrates are dissected and comparison of the various organ systems with the adaptation of the organs is emphasized in the lectures. The course is especially useful to prospective Medical students.

First Semester, three hours. Pre-requisites, Biology 1 and 2.

4. Histology and Histological Technique.

This course of practical work in the laboratory, with lectures and quizzes, furnishes the student a knowledge of the cellular structure of the vertebrate body, and incidentally the methods by which organs are prepared for microscopic study, including fixation, staining, cutting, and mounting sections. The various types of cells are first examined and then some of the simpler organs as a whole are studied. This course is recommended especially for prospective Medical students.

First Semester, three hours. Pre-requisites: Biology 1 and 2, Zoology 3.

5. Embryology.

This course is designed especially for students intending to study Medicine. It undertakes to follow the development of the vertebrate, special attention being given to the amphibian, chick and mammal, from the germ cells to mature condition. Practical work in the laboratory, in which developing amphibian eggs, hen's eggs, and pig embryos will be studied, is supplemented by lectures and quizzes. The history of the germ cells, fertilization, cleavage of the egg, the formation of the principal organs, and the histological differentiation of the tissues is studied.

Second Semester, three hours. Pre-requisites, Biology 1 and 2, Zoology 3 and 4.

6. Animal Ecology.

This is a course designed especially for those intending to teach science in high schools. It includes excursions for the study of animals under natural conditions and the observation of living animals in the laboratory, as well as supplementary readings.

Hours to be arranged by conference; students limited to those who have already had work in Elementary Biology.

MAJOR COURSES. Courses 2, 3, 4 and 5 must be taken by all students who expect to Major in Biology. For details concerning Major courses consult the instructor.

Courses for special purposes:

MEDICINE. Students who desire to prepare for Medicine should take Biology 2, and Zoology 1, 3, 4 and 5.

TEACHERS. Prospective teachers will find the following courses especially helpful. Biology 2, Zoology 1, 3 and 6.

Degrees Conferred at Commencement
1911

BACHELOR OF ARTS

Summa cum Laude

Nathaniel Miles

Magna cum Laude

Martha Jeanette Meyer
Helen Alice Rhyme

Cum Laude

Frances Willard Bailey
Helen Forrester Barlass
John Franklin Candy
Mildred Davis
Verna Mae Essington
Ruth Clarissa Greenfield
Olive Marjorie Helm
Julia Hoppe
Theda Frances Howe
Dorsey Gould Howell
Kenneth Baldwin Jeffries
Edna May Johnson
Harold Hastings Kilbourn
Robert James McInnes
Donald LeCrone McMurray
Jean Pauline Mallery
Marion Walden Meyers
Harley Warren Mitchell
Hazel Dunwiddie Murdock
Paul Emanuel Nilson
Cornelia Mary Pettibone
Holman Dean Pettibone
Lucie Mabel Rice
Alice Fayette Rosenberg
George Walsh Rowell, Jr.
Magnus Elias Runden
Lew R. Saretsky
Kansas Katharyn Simons
Mary Warford
Valerie Catherine Wickhem
Ruth Loretta Winston

Jay Furber Davenport
Frederick Corning Grabner
James Claudius Knott
Norman George Lentzner
Edith Lydia Millett
Ruth May Qualman
Imogene Boardman Rosenberry
Frederick Herman Vonder Sump

BACHELOR OF SCIENCE

Summa cum Laude

Hilmar Koefod

Magna cum Laude

Elizabeth Swift Scriven

Cum Laude

Edwin Howe Allen
John Merwin Beck
Milo Ranney Cobb
Richard Robert Fenska
Helen Ruth Holbrook
Earl Cochran Schmidt
Ralph William Selkirk
Warren Corydon Wade

Sherman Leete Dudley
Clarence Egbert Gehrand
Walter Adolph Johnson
Williams James Mosher
Hamilton Nelson Ross
Alma Marjorie Rowell
Herbert Franklin Williams

HONORS IN SCHOLARSHIP IN PARTICULAR DEPARTMENTS

Olive Marjorie Helm	German
Hilmar Koefod	Chemistry
Nathaniel Miles	Economics
Holman Dean Pettibone	Political Science
Earl Cochrane Schmidt	Mathematics Thesis in Physics
Mary Warford	Latin

Award of Prizes

1910-1911

THE LEWIS PRIZE

Robert Henry Becker	Class of 1912
Olive Marjorie Helm	Class of 1911

THE DECLAMATION PRIZES

Cyril Clouse Thompson	Class of 1914
Franklin M. Yordy	Class of 1914

THE EMERSON PRIZE

Not Awarded

THE RICE PRIZE

Harold Rozell Bruce	Class of 1912

THE MISSIONARY PRIZE

Ralph Knowles Entrikin	Class of 1913

THE LOGAN PRIZES

Not Awarded

THE HAY PRIZE

Nathaniel Miles	Class of 1911

THE FINE ARTS PRIZE

Luther Roy Frame	Class of 1912

THE HORACE WHITE PRIZE

Florence Mary Jones	Class of 1913

THE JACKSON J. BUSHNELL PRIZE

Walter Willis Hammond	Class of 1913

THE ELIZABETH MCMOLLEN PRIZE

Luther Roy Frame	Class of 1912

THE MIDDLEBROOK PRIZES

Aaron VanderVeen Dubee	Class of 1913
William Raymond Duncalf	Class of 1914
Harold Hastings Kilbourn	Class of 1911
Holman Dean Pettibone	Class of 1912
Lew R. Saretsky	Class of 1911
Andrew Lathrop Steele	Class of 1912

The Students

THE STUDENT COUNCIL

Lloyd Vernor Ballard
William Randall Crosby
Luther Roy Frame
John Gross
William Richard Nethercut, Jr.
James Manuel Wolfe

Arthur Farquhar Collins
Robert Everett Haylett
Philips Harlow Macumber
Gaylord Walter Ramsay

Everett Charles Hartley
William Pearce Williams

Leavitt Randall Barker
Louis Kelsey Burno

In the following directory, C. H. stands for Chapin Hall, E. H. for Emerson Hall, J. H. for Junior House, J. S. C. for Julia Salmon Cottage, S. C. for Stowell Cottage.

SENIOR CLASS

Adams, Charles Clarence	Rockford, Ill.	Montgomerie Pk.
Albers, John Wright	Antigo	740 Broad St.
Baker, June	Evansville	E. H.
Ballard, Lloyd Vernor	Beloit	929 Harrison Ave.
Becker, Robert Henry	Beloit	403 St. Lawrence Ave.
Bronson, Reuben Havland	Waupun	740 Broad St.
Brown, Lois Sanborn	Freeport, Ill.	E. H.
Browning, May Lillian	Beloit	622 Broad St.
Bruce, Harold Rozell	Clinton	424 Prospect St.
Carter, Martha May	Madison	E. H.
Cooper, Grace Berenice	Walworth	E. H.
Cornelius, Alice Winifred	Monroe	E. H.
Crosby, William Randall	Beloit	745 Milwaukee Rd.

Dahlberg, Esther Rose	Beloit	732 Vine St.
De Lano, Adele	Beloit	1101 Barstow Ave.
Densmore, Margaret Seaton	Beloit	718 Clary St.
Dodd, Gladys Marie	Milwaukee	E. H.
Ewing, William Thomas	Freeport, Ill.	Montgomerie Pk.
Frame, Luther Roy	Springfield, Ill.	424 Prospect St.
Francis, Harry Dalton	Beloit	1146 Nelson Ave.
Franz, Jessie Elizabeth	Beloit	524 Bluff St.
Golding Marvin Earle	Eustis, Fla.	745 Milwaukee Rd.
Goodell, Harry Edward	St. Charles, Ill.	Hillcrest
Gorham, Laura L.	Waukegan, Ill.	E. H.
Gross, John	La Farge	424 Prospect St.
Guest, Arthur Thomas	Rochelle, Ill.	1125 Chapin St.
Hartmann, Frances Adelle	Marinette	E. H.
Helm, Alice Mildred	Beloit	724 Broad St.
Hinckley, Royal Riford	Beloit	841 Vine St.
Hoag, Ethel Grace	Baraboo	E. H.
Hoy, Arthur Dwight	Woodstock, Ill.	745 Milwaukee Rd
Hubbard, John Tuttle	Centerbrook, Conn.	Montgomerie Pk.
Johnson, Jennie	Portage	E. H.
Levedahl, William Lorraine	Aurora, Ill.	1248 Chapin St.
Lipman, Viola Ottilie	Beloit	136 W. Grand Ave.
Lyman, Grace	Beloit	747 Park Ave.
McLay, Florence Jane	Janesville	E. H.
McMurry, Ruth Emily	De Kalb, Ill.	E. H.
Moore, Barbara Day	Odanah	E. H.
Morgan, Reginald Atwater	Elgin, Ill.	745 Milwaukee Rd.
Mussetter, Emmor Lee	Victor, Ia.	Hillcrest
Nethercut, William Richard, Jr.	Wauwatosa	1248 Chapin St.
Osborne, Clinton M.	Rockford, Ill.	1248 Chapin St.
Pearce, Grace Emma	Walworth	819 Park Ave.
Pearsall, Robert Ellis	Evansville	C. H.
Peterson, Jennie Edith	Sharon	E. H.
Ralston, Florence Isabel	Pocahontas, Ia.	E. H.
Riggs, Lawrence Howard	Oahe, So. Dak.	Montgomerie Pk.
Robie, Roland Fairfield	Rockford, Ill.	Hillcrest
Robinson, Blanche Faye	Beloit	535 Public Ave.

Shoemaker, Erma Anna	Janesville	E. H.
Shue, Ingle Roosevelt	Beloit	317 Euclid Ave.
Simons, George Washington, Jr.	Portland, Ore.	1125 Chapin St.
Sleep, Roy Allen	Elkhorn	740 Broad St.
Smiley, Vera Grace	Beloit	1236 Chapin St.
Spooner, William, Jr.	Oak Park,, Ill.	745 Milwaukee Rd.
Steele, Andrew Lathrop	Dover, Ill.	Hillcrest
Stone, William Edgar	Cambria	Montgomerie Pk.
Thorgrimson, James Rudolph	Decorah, Ia.	424 Prospect St.
Todd, Ethel Marion	Aurora, Ill.	E. H.
Wade, Mabel	Wauwatosa	E. H.
Walker, Helen Beach	Boscobel	540 Public Ave.
Warner, Frederick Raynsford	Geneva, Ill.	1248 Chapin St.
Webster William Brennan	Hudson	1125 Chapin St.
Wolcott, Harold Edward	Joliet, Ill.	1213 Chapin St.
Wolfe, Benjamin Peter	Richfield	740 Broad St.
Wolfe, James Manuel	Beloit	726 Milwaukee Rd.

Seniors—67

JUNIOR CLASS

Adams, Harry Leslie	Cedar Rapids, Ia.	1248 Chapin St.
Baker, Robert A.	Manhattan, Ill.	1248 Chapin St.
Barron, Alfred Newman	Yorkville, Ill.	Hillcrest
Blunt. Valeria Evans	Clinton, Ia.	E. H.
Browne, Christopher William	Chicago, Ill.	424 Prospect St.
Buck, Homer Allen	Fort Atkinson	C. H.
Burke, Walter Smith, Jr.	Batavia, Ill.	1125 Chapin St.
Clinchy, Anna Ruth	Beloit	936 Harrison Ave.
Collins, Arthur Farquhar	Hinsdale, Ill.	1125 Chapin St.
Cooper, Estelle	Clinton	J. H.
Dickinson, Ruth Boyd	Lake Geneva	J. H.
Dooley, John Wallace	Wyocena	Montgomerie Pk.
Durgin, Elmer Ralph	Racine	C. H.
Ebert, George Louis	Beloit	727 Central Ave.
Emerson, Margaret	Beloit	736 Church St.
Entrikin, Ralph Knowles	Moline, Ill.	Montgomerie Pk.
Fellows, Harriet Lindewood La Ferve	Sioux Falls, So. Dak.	J. H.
Gayton, Lulu Catherine	Beloit	841 Highland Ave.
Gillies, Walter Scott	Evansville	Montgomerie Pk.
Goff, Rispah Britton	Elkhorn	J. H.
Greene, Adaline	Beloit	622 Broad St.
Greenlee, Edith Margaret	Argyle, Ill.	J. H.
Hammond, Walter Willis	Beloit	849 Park Ave.
Haylett, Robert Everett	Milwaukee	1248 Chapin St.
Hiller, Harrod Elliott	Kahoka, Mo.	740 Broad St.
Holmes, Bert Chase	Evansville	1125 Chapin St.
Hutson, Percival Winterburn	Sparta	424 Prospect St.
Hyde, Charles Lee, Jr.	Pierre So. Dak.	Montgomerie Pk.
Jones, Florence Mary	Delavan	J. H.
Kent, Sherman Edwards	Beloit	635 Park Ave.
Kerwin, Fred Noble	Pinedale, Wyo.	C. H.
Kittelson, John Asdal	Beloit	624 Church St.
Lauderdale, Lila Mae	Elkhorn	J. H.
McCoy, Ralph Weston	New Richmond	1125 Chapin St.

Macumber, Philips Harlow	Superior	745 Milwaukee Rd.
Mereness, Luella Frances	Beloit	J. H.
Michie, John Gordon	Houston, Tex.	424 Prospect St.
Miller, James Allen	Toulon, Ill.	Montgomerie Pk.
Monson, E. Hjalmar	Blanchardville	424 Prospect St.
Moses, Frank Dudley	Clay Center, Kan.	Hillcrest
Naftalin, David Wattell	Chicago, Ill.	Hillcrest
Nichols, George Byron	Sharon	C. H.
Nichols, Henry Carpenter	Chicago, Ill.	C. H.
Northrop, Marjorie Filmer	Beloit	818 Church St.
Nott, Ethel Ruth	Elkhorn	J. H.
Pellet, Frederic Dwight	Oak Park. Ill.	745 Milwaukee Rd.
Peterson, Elsa Mabel	Dundee, Ill.	719 Harrison Ave.
Ramsay,Gaylord Walter	Chillicothe, Ill.	424 Prospect St.
Reed, Bessie Davis	Beloit	1215 Bushnell St.
Reid, Iva Mary	Rockford, Ill.	J. H.
Saxton, Lillian Margaret	Belvidere, Ill.	J. H.
Seiffert, Albert	Chicago, Ill.	740 Broad St.
Shoemaker, Grace	Sparta	J. H.
Smith, Elizabeth	Beloit	649 Harrison Ave.
Stahlnecker, Marion Walter	Beloit	824 Roosevelt Ave.
Sutherland, Mildred Louise	Madison	J. H.
Thornton, Agnes	New Bedford, Mass.	J. H.
Tuft, Harry William	Sharon	C. H.
Turney, Marguerite Frances	Aurora, Ill.	J. H.
Van Lone, Irwin Ivan	Beloit	327 W. Grand Ave.

Juniors—60

SOPHOMORE CLASS

Aldrich, Lynn Ellis	Rockford, Ill.	1248 Chapin St.
Alpine, John Gorman	Joliet, Ill.	1248 Chapin St.
Amborn, Edna Viola	Beloit	1003 Prairie Ave.
Armstrong, LeRoy Allen	Boscobel	C. H.
Baker, Lea Williamson	Palatine, Ill.	C. H.
Bates, Lynn Alan	Allison, Ia.	C. H.
Bates, Winifred	Capron, Ill.	E. H.
Beebe, Chauncey DeWitt	Sparta	745 Milwaukee Rd.
Blazer, Gertrude Elizabeth	Beloit	509 Broad St.
Bridgman, Robert Larkworthy	Beloit	953 Vine St.
Brittan, Mary	Beloit	541 Park Pl.
Brodtkorb, Lola	Edgeley, No. Dak.	E. H.
Brown, Arthur Norman	Wauwatosa	316 Locust St.
Brown, Carroll W.	Fort Atkinson	740 Broad St.
Buckeridge, Charles Rex	Beloit	629 Park Ave.
Buelow, Earl Francis	Waupun	740 Broad St.
Canright, Emory Moran	Fairmont, Minn.	424 Prospect St.
Caskey, Earl James	Beloit	111 Roosevelt Ave.
Chesbrough, Gertrude	Beloit	651 Park Ave.
Chilson, Benjamin	Beloit	1148 Barstow Ave.
Chisholm, Roy Davies	Pembina, No. Dak.	C. H.
Christie, Ruth	Austin, Minn.	E. H.
Collver, Marguerite Gillis	Clinton	E. H.
Cooke, Rodney S.	Independence	C. H.
Cowing, Glenn Lincoln	Joliet, Ill.	Hillcrest
Crawford, Chrissie Louise	Baraboo	936 Park Ave.
Darrenougue, Evan J.	Reedsburg	902 E. Grand Ave.
Day, Clifford Louis	Beloit	950 Park Ave.
DeLancy, Mary	Elgin, Ill.	E. H.
Densmore, Ethelwyn Dorothy	Beloit	718 Clary St.
Eakin, Eleanor Jane	Elgin, Ill.	E. H.
Eastman, Stanley Everett	Marinette	745 Milwaukee Rd.
Emerson, Cordelia	Beloit	736 Church St.

Fuller, Hazel Marguerite	Beloit	511 Public Ave.
Funk, Raymond Oswald	Carver, Minn.	1248 Chapin St.
Goll, Robert, Jr.	Milwaukee	1248 Chapin St.
Goodrich, Winifred	Milton Junction	E. H.
Gray, Philip Marshall	Chicago, Ill.	1125 Chapin St.
Gregory, Gladys	Beloit	516 College St.
Hamilton, Francis Willard	Gardner, Ill.	424 Prospect St.
Harris, Hugh	Waukesha	745 Milwaukee Rd.
Hart, Jeanette Mary	Elroy	E. H.
Hartley, Everett Charles	Carver, Minn.	1125 Chapin St.
Hevey, John Arthur	Beloit	1213 Lawrence Ave.
Hineline, Marjorie Laird	Beloit	625 Park Ave.
Hoefer, Ruby Anna	Freeport, Ill.	E. H.
Hogarth, Frank William	Beloit	1237 Prairie Ave.
Howard, Blanche Morton	Waupun	E. H.
Howard, James Arthur	Evansville	704 Park Ave.
Hyslop, Clayton James	Blair	740 Broad St.
Jamieson, Hugh John	Poynette	Hillcrest
Johnson, Ben Frank	Pine River	C. H.
Johnson, James King	Waterloo	745 Milwaukee Rd.
Kalt, Albert Victor	Glenhaven	Hillcrest
Krengel, Irving Hubner	Elgin, Ill.	1248 Chapin St.
Landing, Harold	Glenwood, Minn.	C. H.
Larson, Bertil Thomelius	Crystal Falls, Mich.	1248 Chapin St.
Learnard, Ralph King	Joliet, Ill.	1248 Chapin St.
Lyon, Elmer Bernhard	Sawyer	C. H.
McClellan, James Maxwell	Hamilton, Ohio	C. H.
McGarvey, Agnes	Wilton	627 Church St.
McOwan, Amy Arabelle	Yorkville, Ill.	905 Church St.
Martin, John George	Oak Park, Ill.	1248 Chapin St.
Merriman, Kathryn Marion	Beloit	1304 Prairie Ave.
Mills, Margaret Elizabeth	Oak Park, Ill.	E. H.
Moyer, Gaelord	Waterloo	C. H.
Murdock, Marjorie	Beloit	551 E. Grand Ave.
Murphy, James Emmett	Janesville	740 Broad St.
Nethercut, Marjorie Warren	Wauwatosa	E. H.

Northrop, Marshall Mills	Beloit	818 Church St.
Nye, Laura	Beloit	643 Park Ave.
O'Connor, Richard Goodhue	Whitewater	745 Milwaukee Rd.
Parker, Florence Bennett	Aurora, Ill.	E. H.
Pearsall, Clifford J.	Evansville	1125 Chapin St.
Pierce, Louise Winifred	Elgin Ill.	E. H.
Puffer, Ray King	Joliet, Ill.	1248 Chapin St.
Raisen, Earl Dalton	Milwaukee	C. H.
Roadhouse, Wilbur	Beloit	527 Broad St.
Roberts, David Claude	Cambria	Montgomerie Pk.
Rogers, Malcolm Fletcher	Oconomowoc	1248 Chapin St.
Rosenblatt, Doretta Lillian	Beloit	413 Harrison Ave.
Rosenthal, Harry John	Rockford, Ill.	C. H.
Rowell, Wallace Arthur	Menomonee Falls	1125 Chapin St.
Russell, Marion	Elgin, Ill.	E. H.
Saxby, Chester Leopold	Superior	1125 Chapin St.
Sayre, Ralph	Beloit	315 Locust St.
Smith, Kenneth Blume	Viroqua	740 Broad St.
Smith, Rebecca	Beloit	649 Harrison Ave.
Smith, Vera Louise Davies	Pueblo, Colo.	E. H.
Sterling, Marie	Austin, Minn.	E. H.
Sutherland, Arlie	Janesville	E. H.
Swain, Ernest Clarence	Wilmington, Mass.	745 Milwaukee Rd.
Taylor, Gertrude Diana	Delavan	E. H.
Theobold, Harold	Evansville	Montgomerie Pk.
Thompson, Edna Mary	Spring Valley, Ill.	E. H.
Thompson, Laura Josephine	Beloit	316 St. Lawrence Ave.
Thornton, Emily	New Bedford, Mass.	E. H.
Turner, Hallie Frances	Albany	E. H.
Tyrrell, Franklin Edward	Lake Geneva	745 Milwaukee Rd.
Usborne, Muriel Lois	Milwaukee	E. H.
Wade, Harold	Wrentham, Mass.	704 Public Ave.
Wallace, George Allan	Oak Park, Ill.	745 Milwaukee Rd.
Way, Charles Thomas	Fox Lake	552 Public Ave.
Weirick, Bessie Muriel	Beloit	211 St. Lawrence Ave.
Westine, Fred	Kenosha	Hillcrest

White, Herbert Ralph	Milwaukee	745 Milwaukee Rd.
Wickhem, Elizabeth Marie	Beloit	451 Prairie Ave.
Willard, Harold Allen	Belvidere, Ill.	1248 Chapin St.
Williams, Mary	Delavan	E. H.
Williams, Phoenix Edward	Delavan	1248 Chapin St.
Williams, Ralph Stephen	Sparta	1248 Chapin St.
Williams, William Pearce	Ewing, Ill.	424 Prospect St.
Williamson, Chester Hubbard, Jr.	Memphis, Tenn.	745 Milwaukee Rd.
Woodard, Harry	Fairmont, Minn.	424 Prospect St.
Woodward, Clair Linton	Orchard, Ia.	740 Broad St.

Sophomores—115

FRESHMAN CLASS

Ahlgren, Oscar Alexander	Whiting, Ind.	Hillcrest
Anderson, Edward August	Merrill	C. H.
Ank, Guy Calvin	Mt. Carroll, Ill.	C. H.
Bachus, Arthur Carl	Fort Atkinson	C. H.
Bailey, Edith Marian	Geneva, Ill.	S. C.
Ballard, Olive Mabel	Wayne, Ill.	J. S. C.
Barker, Leavitt Randall	Clinton, Ia.	1248 Chapin St.
Barrett, Reginald Wendell	Merrill	C. H.
Barron, Raymond Millard	Newark, Ill.	Hillcrest
Bates, Gilbert Marcus	Duluth, Minn.	424 Prospect St.
Beckus, Ebba Cecelia	Beloit	R. 29, Box 9A
Belding, Grace M.	Janesville	S. C.
Bentley, Howard Delos	Marathon, Ia.	C. H.
Blim, Warren C.	Crete, Ill.	558 Grand Ave.
Borden, Alice Holman	Milton	S. C.
Borden, Don Albert	Milton	723 Prairie Ave.
Boreson, Bradner Frank	Beloit	1059 Park Ave.
Brace, George Quigley	Sparta, Mich.	424 Prospect St.
Brown, Julian	West Salem	763 Milwaukee Rd.
Buckley, Gladys Elizabeth	Beloit	1249 Emerson St.
Buckmaster, Ben Stalker	Kenosha	763 Milwaukee Rd.
Burno, Louis Kelsey	Blue Island, Ill.	745 Milwaukee Rd.
Butters, Harold Albert	Ottawa, Ill.	1248 Chapin St.
Chapman, Frederick Leslie, Jr.	Lake Geneva	C. H.
Clark, Almira Marian	Beloit	1009 Prairie Ave.
Clark, Mary Irene	Dixon, Ill.	S. C.
Collver, Flora Bartlett	Clinton	S. C.
Cook, Benjamin Franklin	Compton, Ill.	740 Broad St.
Cuckow, Filmer Stuart	Avalon	C. H.
Dahle, John Carlisle	Sun Prairie	Montgomerie Pk.
Dahlgren, George Arthur	La Crosse	740 Broad St.
Davidson, Preston Lewis	Hinsdale, Ill.	1125 Chapin St.
Denney, Elliott S.	Aurora, Ill.	745 Milwaukee Rd.
Denney, Ellis Houston	Cedar Rapids, Ia.	716 Broad St.
Dubee, Stuart William	Beloit	623 Church St.

Dudley, Jennie Marion	West Salem	S. C.
Eames, Raymond Rexford	Blue Island, Ill.	745 Milwaukee Rd.
Earle, Norman Pearce	Des Plaines, Ill.	C. H.
Eby, Mildred Florence	Aurora, Ill.	J. S. C.
Elliott, Arthur Charles	Rochester, Minn.	745 Milwaukee Rd.
Elwell, Mary Frances	McGregor, Ia.	S. C.
Erving, Marguerite Katherine	Dundee, Ill.	J. S. C.
Erving, Robert Raymond	Dundee, Ill.	Hillcrest
Fairfield, Ronald James	Minneapolis, Minn.	1248 Chapin St.
Ferris, Holmes Dunbar	Princeton, Ill.	424 Prospect St.
Fisher, Harrison Bert	Angelica	724 Clary St.
Fisk, John Lewis	Beloit	763 Milwaukee Rd.
Fluekiger, Ernest Rust	Beloit	937 Bluff St.
Ford, Allen Wescott	Lacon, Ill.	C. H.
Fucik, George	Williams Bay	740 Broad St.
Fullerton, Theron Bushnell	Ottawa, Ill.	1248 Chapin St.
Galloway, Joseph Lawrence	Fort Atkinson	1125 Chapin St.
Gay, Willard Spencer	Ottawa, Ill.	1248 Chapin St.
Gharrity, Thomas John	Beloit	1132 Partridge Ave.
Gilfillan, William Emmett	Chillicothe, Ill.	Montgomerie Pk.
Grant, Lillian Ward	Southfield, Mass.	742 Church St.
Habberstadt, Earle Sylvanna	Lanesboro, Minn.	Hillcrest
Hall, Edmond Winfield	Rio	C. H.
Halsted, Herbert Foltz	Rockford, Ill.	335 Highland Ave.
Halverson, Donald Littlejohn	Whitewater	1248 Chapin St.
Hammond, Alva Merwin	Beloit	849 Park Ave.
Harney, Porter	Marshfield	C. H.
Helgesen, Charity Agnes	Waupun	J. S. C.
Helm, Berwin Woodhull	Beloit	911 Bushnell St.
Higby, Frank Pratt	Charlotte, Mich.	745 Milwaukee Rd.
Hineline, Harry Dale	Beloit	Highlands
Hissem, Joe Teeter	Mt. Carroll, Ill.	C. H.

Holliday, Houghton	Red Wing, Minn.	840 Park Ave.
Hoover, James Blaine	DeKalb, Ill.	915 Bushnell St.
Horstmann, Edith Laura	Beloit	737 Euclid Ave.
Hotchkiss, Ruth Odetta	Elkhorn	S. C.
Huestis, James Deane	Fonda, N. Y.	C. H.
Hulburt, Stennett Chauncey	Beloit	724 Clary St.
Hull, Marjorie	Beloit	725 Euclid Ave.
Hurn, Mark	Union Grove	C. H.
Hyslop, Orton Charles	Blair	740 Broad St.
Jacobs, Homer Avery	Rock Valley, Ia.	538 Broad St.
Jacobsen, Edmund Lewis	Pierre, So. Dak.	Montgomerie Pk
Jacobson, Nina Josephine	Clinton Junction	J. S. C.
Jeffris, Katharine Leisk	Janesville	S. C.
Jones, Martin Townsend	Cherry Valley, Ill.	538 Broad St.
Kelley, Helen Beardsley	Beloit	723 Prairie Ave.
Kellogg, William Ferdinand	Grand Rapids	840 Park Ave.
Kelly, Gooding Norton	Wausau	1248 Chapin St.
Kendall, Earl	Chillicothe, Ill.	423 Prospect St.
Kendall, Harry A.	Whitewater	533 Broad St.
Kerndt, Robert Henry	Lansing, Ia.	745 Milwaukee Rd.
Kettunen, Tyyne Saima	Ishpeming, Mich.	S. C.
King, Charles Ruthaford	Watertown	1125 Chapin St.
Laing, Donald Warbasse	Sparta	540 Public Ave.
Lamb, Arthur Daniel	Chicago, Ill.	Montgomerie Pk.
Laurie, Arthur George	Lake Geneva	C. H.
Leckie, Archibald Verner	Joliet, Ill.	763 Milwaukee Rd.
Leitzell, George Harold	Dakota, Ill.	740 Broad St.
Lerch, Roger Sherman	Duluth, Minn.	424 Prospect St.
Lewis, Selwyn T.	Endeavor	816 Locust St.
Lewis, Russell Francis	Sun Prairie	Montgomerie Pk.
Lindermann, Albon B.	Viroqua	816 E. Grand Ave.
Lowe, Harry Lester	Beloit	320 Prospect St.
Lowrey, Alice Irene	Oak Park, Ill.	S. C.
Lyon, Merle Paul	Wheaton, Ill.	C. H.
McCutcheon, Robert	Arena	C. H.
McInnes, Bessie Croft	Edgerton	J. S. C.
McMillin, William Donald	Whitewater	Hillcrest
McMullin, Gerald LeRoy	Clinton, Ia.	1248 Chapin St.
Macklem, Jane Crozier	Beloit	946 Park Ave.

Marsh, Corienne Lois	Beloit	850 Hackett St.
Mewhirter, Agnes Bourton	Yorkville, Ill.	E. H.
Miller, Helen De Vore	Geneva, Ill.	S. C.
Moss, Agnes Gertrude	Beloit	744 Prairie Ave.
Munn, Grace Mary	Beloit	528 Bluff St.
Nair, John Henry	Fort Atkinson	Hillcrest
Neill, David Holland	Aberdeen, So. Dak.	763 Milwaukee Rd.
Newbury, Horace Charles	Waukesha	745 Milwaukee Rd.
Nye, Roy Fred	Shirland, Ill.	C. H.
Olson, John Ove Sigfrid	St. James, Minn.	915 White Ave.
Patton, Marguerite Gray	Belvidere, Ill.	J. S. C.
Pettibone, Dorothy	Burlington	S. C.
Phillips, Neptune	Mt. Carroll, Ill.	C. H.
Pike, Eva Harriet	Beloit	1005 Chapin St.
Pile, Homer Bennett	Dodgeville	936 Fourth St.
Place, Margaret Ethel	Marinette	S. C.
Post, Leroy Earle	Milwaukee	1248 Chapin St.
Prouty, Ernest Andrew	Sandusky	717 Emerson St.
Radcliffe, Marie Beatrice	West Allis	S. C.
Ransom, Reuben Holmes	Atkinson, Ill.	Montgomerie Pk.
Rau, Ruth Higley	Beloit	757 Euclid Ave.
Ray, Percy	Arena	704 Park Ave.
Rich, John Kellogg	Evergreen Park, Ill.	1248 Chapin St.
Robbins, Wilford J.	Chicago Heights, Ill.	412 Public Ave.
Ryon, Harrison John	Charles City, Ia.	745 Milwaukee Rd.
Sahler, Henry Ten Hagen	Joliet, Ill.	716 Emerson St.
Schrank, Walter John	Milwaukee	925 Harrison Ave.
Shipton, Audus Walton	Woodstock, Ill.	740 Broad St.
Slaughter, Dallas Reed	Green Bay	414 Harrison Ave.
Stevens, William Henry	Cloquet, Minn.	C. H.
Stormes, Chauncey Maynard	Clinton, Ia.	1248 Chapin St.
Taylor, Grace Elizabeth	Delavan	S. C.
Thatcher, Luella	Beloit	931 Church St.
Thompson, Cyril Clouse	Joliet, Ill.	1125 Chapin St.
Thompson, Kenneth Chelsea	La Grange, Ill.	441 Prairie Ave.

Tracy, Don Wayne	Merrill	C. H.
Trowbridge, Dorothy Amanda	Viroqua	S. C.
Turner, Jessie Irene	Hebron, Ill.	S. C.
Van Hecke, Maurice Taylor	Chicago, Ill.	C. H.
Wade, Esther	Wauwatosa	S. C.
Wahl, John Jacob	Madison	551 Public Ave.
Ward, Frank Harold	Waukesha	745 Milwaukee Rd.
Webster, Charles Emerson	Hudson	723 Prairie Ave.
Whittemore, Lola Sybel	Beloit	725 Euclid Ave.
Wilcox, Grace Eleanor	Elroy	S. C.
Wilcox, Horace Wilson	Charlotte, Mich.	740 Broad St.
Wilcox, Thornton	Rockford, Ill.	624 Church St.
Williams, Clarence Charles	Milwaukee	840 Park Ave.
Williams, David Herbert	Sparta	424 Prospect St.
Williams, Lawrence Henry	Delavan	1248 Chapin St.
Williams, Willard Francis	Bristol	C. H.
Wing, Florence Helm	Elgin, Ill.	S. C.
Winslow, Anna Lord	Aurora, Ill.	S. C.
Worthington, Asenath Drucilla	Harvard, Ill.	421 W. Grand Ave.

Freshmen—160

SUMMARY

Seniors	67
Juniors	60
Sophomores	115
Freshmen	160
Total	402

Addendum

SHORT STORY PRIZE

A prize of $25.00 has been offered by Dr. Charles F. Read of the class of 1898 for the best short story. Competition is open to students of all the College classes; three typewritten copies must be handed in not later than June 1st.

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Edward W. Williams, '05...............*Vice-President*
Charles W. Merriman, '78......*Secretary and Treasurer*

Annual Meeting Commencement Week

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Mrs. Mary Hadden Fisher, '00......*Recording Secretary*
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Rock River Valley Alumni Association

Robert C. Chapin, '85.......................*Secretary*

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BELOIT, WIS.
Daily News Publishing Co.
1912

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BELOIT COLLEGE BULLETIN

Vol. XI MARCH, 1913 No. 4

The Catalogue

1912-1913

PUBLISHED BY
BELOIT COLLEGE
BELOIT, WISCONSIN

Corporate Name

The corporate name of Beloit College for use in all wills, bequests and gifts is "THE BOARD OF TRUSTEES OF BELOIT COLLEGE".

Correspondence

Address the Registrar of the College, for

1. Catalogues and other publications of the College.
2. Information regarding admission, accrediting of schools, certificates and examination.
3. Accommodations in dormitories.
4. Extension lectures.

Address the Editor of the Catalogue for information concerning Alumni.

Send all deposits and other payments to BELOIT COLLEGE, to which all checks should be made payable.

SIXTY-SIXTH
ANNUAL
CATALOGUE
— OF —
BELOIT COLLEGE

Issued as VOL XI, No. 4

OF

The Beloit College Bulletin

Entered December 16, 1902, at the Postoffice in Beloit, Wisconsin, as Second-Class Matter, Under Act of Congress of July 16, 1894.

BELOIT, WISCONSIN
March, 1913.

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College Calendar

1912

September 17, Tuesday	Examinations for admission Registration of Freshmen, 9:00 A. M. to 4:00 P. M.
September 18, Wednesday	Registration of Upper Classes 9:00 A. M. to 4:00 P. M. First Semester begins: Convocation, 4:30 P. M.
October 9, Wednesday	Big Hill Day
October 15, Tuesday	Meeting of the Board of Trustees
November 27, Wednesday	Recitations close, 12:00 M.

THANKSGIVING RECESS

November 29, Friday	Recess closes Registration, 1:00 to 3:00 P. M.
December 13, Friday	Home Oratorical Contest
December 19, Thursday	Winter Recess begins

1913

WINTER RECESS

January 2, Thursday	Winter Recess closes, 1:30 P. M. Registration, 1:00 to 3:00 P. M.
January 21, Tuesday	Meeting of the Board of Trustees
January 22, Wednesday	Election of Studies for Second Semester.
January 23, Thursday	Day of Prayer for Colleges
February 5, Wednesday	First Semester closes, 12:00 M. Second Semester begins: Registration, 1:30 to 6:00 P. M.
February 14, Friday	Matriculation
February 22, Saturday	Washington's Birthday
March 21, Friday	Spring Recess begins, 12:00 M.

SPRING RECESS

April 1, Tuesday	Spring Recess closes, 1:30 P. M. Registration, 1:00 to 3:00 P. M.
April 15, Tuesday	Meeting of the Board of Trustees
May 21, Wednesday	Election of Studies for First Semester, 1913-1914.
May 30, Friday	Memorial Day
June 2, Monday	Essays in competition for prizes due
June 12, Thursday	Final Chapel Exercises
June 15, Sunday	Address before the Christian Associations, 10:30 A. M. Baccalaureate Sermon, 5:00 P. M.

June 16, Monday............Rice Extemporaneous Speaking
June 17, Tuesday............Alumni Luncheon, 12:30 P. M.
Class Day Exercises
June 18, Wednesday.................Commencement Day
Graduation Exercises, 9:00 A. M.

SUMMER VACATION

September 23, Tuesday.........Examinations for Admission
Registration of Freshmen, 9:00 A. M. to 4:00 P. M.
September 24, Wednesday....Registration of Upper Classes,
9:00 A. M. to 4:00 P. M.
First Semester begins: Convocation 4:30 P. M.
October ....Big Hill Day
October 21, Tuesday......Meeting of the Board of Trustees
November 26, Wednesday........Recitations close, 12:00 M.

THANKSGIVING RECESS

November 28, Friday..............Recess closes, 1:30 P. M.
Registration, 1:00 to 3:00 P. M.
December 24, Wednesday....Winter Recess begins, 12:00 M.

1914

WINTER RECESS

January 7, Wednesday......Winter Recess closes, 1:30 P. M.
Registration, 1:00 to 3:00 P. M.
February 11, Wednesday.....First Semester closes, 12:00 M.
Second Semester begins: Registration 1:30 to 6:00 P. M.
February 20, Friday .... Matriculation
March 27, Friday............Spring Recess begins, 12:00 M.

SPRING RECESS

April 7, Tuesday..........Spring Recess closes, 1:30 P. M.
June 24, Wednesday .... Commencement Day

SUMMER VACATION

September 23, Wednesday ....College Opens

Note:—For students who are conditioned or who have work to make up, examinations are held during the spring recess and the summer vacation. These examinations, for which a schedule is posted two weeks in advance, begin on the first Friday afternoon of the spring recess and the final Monday afternoon of the summer vacation. All students who have work to make up must present themselves for examination at the hours as scheduled.

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FRANK M. YORDY, *Assistant in Gymnasium.* 552 Public Ave.

Exchange Professor

1912-13.

George Herbert Palmer, a.m., litt.d., ll. d., *Alford Professor of Natural Religion, Moral Philosophy and Civil Polity in Harvard University.*
Cambridge, Mass.

Lecturers

1912-13.

Rev. Harlan Page Beach, m.a., *Professor of the Theory and Practice of Missions in Yale University; Lecturer on the Porter Missionary Lecture Foundation.*
New Haven, Conn.

Dr. Eugen O. K. Kuehnemann, *Professor of Philosophy at the Royal University of Breslau; Lecturer on the George Greiner Schneider Foundation.*

Committees of the Faculty

On Accredited Schools and Entrance: Professors Densmore, Calland, Hamilton, Way.

On Administration: The President, the Dean, the Dean of Women, the Recorder, the Registrar, the Secretary of the Faculty, Professor Richardson.

Sub-Committee on the Educational Development of the College: The President, the Registrar, Professor Richardson.

Sub-Committee on Fraternities: The Dean, the Registrar, the Secretary of the Faculty.

On Catalogues and Bulletins: Professors E. G. Smith, Waugh, Clancy.

On Courses of Study: Professors Chapin, Densmore, Dubee, Wells.

On Delinquencies: The Dean, the Dean of Women, Professors Chapin, Densmore, E. G. Smith.

On Faculty Meetings: Professors Calland, Waugh, Kunkel, Young, Mr. Merriam.

On Graduate Study: Professors Dubee, Fath, Miss Adams, Mr. Horst.

On Grounds: Professors Wright, Burr, Deane, Sleeper.

On Gymnasium and Athletics: Professors Hamilton, Evans, Mr. Light, Miss Rogers.

On Lecture Courses: Professors Way, Culver, Fath, Mr. Menger.

On the Library: Professors Deane, Chapin, E. G. Smith, Wells.

On Positions for Graduates: Professors Burr, Calland, Way.

On Press: Professors Culver, Clancy, Young, Mr. Light.

On Promotion of Scholarship: Professors Burr, Dubee, Richardson, E. G. Smith.

On Public Occasions: Professors E. G. Smith, Crawford, Sleeper, McLeod.

On Religious Exercises: Professors Richardson, Wright, Culver, Kunkel.

On Rules: Professors Wright, T. A. Smith, Wells, the Dean of Women.

On Schedules: Professors Richardson, Hamilton, Culver, Mr. Merriam.

On Scholarships: Professors Densmore, Burr, T. A. Smith.

Members of Athletic Board of Control: Professor Hamilton, Chairman, Professor McLeod, Mr. Light.

Members of Board of Control of Archæan Union: Professor Chapin, Chairman, Professor Clancy.

Advisers to Musical Organizations: Professors Sleeper, Deane, Dubee, Waugh.

On Regulation of Student Activities: The Dean, Professor Richardson.

Student Advisers

For the Class of 1915: Professor E. G. Smith, Chairman; Professors Burr, Chapin, Clancy, Densmore, Dubee, Hamilton, T. A. Smith, Way, Wells, Young.

For the Class of 1916: Professor Burr, Chairman. Professors Calland, Clancy, Culver, Deane, Hamilton, McLeod, Richardson, E. G. Smith, Wells, Wright.

Officers of Administration

Edward Dwight Eaton, D.D., LL. D. *President*
846 College St.

George Lucius Collie, Ph.D. *Dean*
731 Park Ave.

Kathryn Newell Adams, B.A. *Dean of Women*
Emerson Hall.

Hiram Delos Densmore, M.A. *Registrar*
718 Clary St.

Erastus Gilbert Smith, Ph.D. *Recorder*
649 Harrison Ave.

Robert Coit Chapin, Ph.D. *Secretary of the Faculty*
709 College St.

Edward Bela Kilbourn, B.A. *Treasurer*
633 College St.

John Pitt Deane, B.A., B.D. *Librarian*
742 Church St.

James Taylor Sleeper, B.A. *Organist and Choirmaster*
Chapin Hall.

Helen Brace Emerson *Curator of the Art Collections*
810 College St.

IVA MARION BUTLIN, M.A. *Associate Librarian*
715 Church St.

DANA MCKEAN EVANS *Director of Athletics*
1016 Church St.

IRA MAYNARD BUELL, M.A., *Curator Logan Museums*
741 Harrison Ave.

EDWARD HAROLD LIGHT, B.A.
General Secretary and Head of Chapin Hall
Chapin Hall.

FLORA MCDONALD WOOD *Head of Junior House*
Junior House

MILDRED LOIS EATON
Head of Stowell Cottage and Secretary to the President
Stowell Cottage.

CORA COOPER CROSS *Matron of Emerson Hall*
Emerson Hall.

MRS. L. D. HILLHOUSE *Matron of Chapin Hall*
Chapin Hall.

JOHN BARVELL PFEFFER *Head Janitor*
725 Chapin St.

JOHN ALLEN ELLINGSON *Supt. of Buildings and Grounds*
Campus.

Assistants

George Clark Haines, B.S. Chapin Hall.	*Assistant in the Library*
M. Belle Alexander 1235 Chapin St.	*Treasurer's Assistant*
Marie Fox 741 Church St.	*Registrar's Assistant*
Alda Fluekiger, B.A. 937 Bluff St.	*Recorder's Assistant*
Edna May Johnson, B.A. 1027 Prairie Ave.	*Assistant in the Art Hall*

Office Hours

The President — President's rooms, Library, 10:00 to 11:00 A.M., except Saturday.

The Dean—Dean's office, Middle College, 4:30 to 5:30 P.M., except Saturday.

The Dean of Women—Emerson Hall, 12:30 to 1:30 and 6:30 to 7:30 P.M., daily.

The Registrar—Registrar's office, Middle College, 4:00 to 4:30 P.M., except Saturday.

The Recorder—Recorder's office, Middle College, 9:30 to 10:30 A.M., except Saturday.

The Treasurer—Middle College, 9:00 to 12:00 A.M., and 1:30 to 4:30 P.M., except Saturday afternoon.

Origin and Development

AS early as 1843 there was some discussion of the need and possibility of a college for the new region opened to settlement by the Black Hawk war in the Northwest Territory. In June, 1844, a general convention of Congregational and Presbyterian churches in the Northwest was held at Cleveland, Ohio, at which education received much attention. Returning delegates decided to call a convention in Beloit in August, 1844, to plan for the location of institutions for Wisconsin, Illinois, and Iowa.

Three more conventions were held—all in Beloit, for it was felt from the outset that Beloit was the most favorable place for a college in Wisconsin. The first meeting of the trustees was held October 23rd, 1845. The charter of the college, approved by the Governor of the Territory of Wisconsin, February 2nd, 1846, is as follows:

Be it enacted by the Council and House of Representatives of the Territory of Wisconsin:

SECTION 1. (That) Rev'ds A. Kent, D. Clary, S. Peet, F. Bascom, C. Waterbury, J. D. Stevens, A. L. Chapin, R. M. Pearson, Messrs. G. W. Hickox, A. Raymond, C. M. Goodsell, E. W. Potter, L. G. Fisher, W. Talcott, Charles S. Hempstead, and Samuel Hinman and their successors be, and they are hereby created, a body politic and corporated to be styled THE BOARD OF TRUSTEES OF BELOIT COLLEGE, and by that name to remain in perpetual succession, with full power to sue and be sued, plead and be impleaded, to acquire, hold, and convey property, real and personal; to have and use a common seal, to alter and renew the same at pleasure; to make and alter, from time to time, such by-laws as they may deem necessary for the government of said institution, its officers and servants: *Provided,* such by-laws are not inconsistent with the constitution and by-laws of the United States or of this Territory; also to have power to confer on those whom they may deem worthy, all such honors and degrees as are usually conferred in like institutions.

Section 2. That the said College be located in the township of Beloit, Rock County, and shall be erected on a plan sufficiently extensive to afford instruction in the liberal arts and sciences; and the trustees may, as their ability shall increase, and the interests of the country require, erect any or all of the different departments for the study of the liberal professions, in such locations as may be most feasible, in the town of Beloit.

Section 3. That the board of trustees shall have power to appoint a president, vice-president, treasurer and such agents as they may deem necessary, and shall fill all vacancies that may occur in their own board, by (expiration of term), resignation, death or neglect for more than one year to attend to the duties of the trustee; also, to prescribe and direct the course of studies to be pursued in the institution and its departments.

Section 4. That the board of trustees shall consist of sixteen members, with power to increase their number to twenty-four; and (any) seven of whom shall constitute a quorum for the transaction of business. Said board of trustees shall hold their first annual meeting in the township of Beloit, on the fourteenth day of April, 1846, and afterwards they shall meet on their own adjournments; but in cases of emergency the president, with the concurrence of two trustees, may call a special meeting, or any five members may call such meeting by giving notice to such (each) member at least ten days before the time of such meeting.

Section 5. That the board of trustees shall faithfully apply all funds by them collected or received, according to their best judgment, in erecting suitable buildings, supporting the necessary officers, instructors and servants, in procuring books and apparatus, necessary to the success of the institution; *Provided,* *nevertheless*, That in case any donation or bequest be made for particular purposes, which accord with the designs of the institution, and the corporation shall receive and accept the same, every donation or bequest thus made shall be applied in conformity to the conditions or designs expressed by the donor.

SECTION 6. That the treasurer of the institution shall always, and all other agents when required, before entering upon the duties of their appointments, give bond for the security of the corporation, and of the public, in such penal sums, and with such sureties as the board of trustees shall approve.

SECTION 7. That no religious tenets or opinions shall be requisite to entitle any person to be admitted as a student in said college, and no such tenets or opinions shall be required as a qualification for any professor, tutor, or teacher of said college, and no student of said college shall be required to attend religious worship in any particular denomination.

SECTION 8. The Legislature shall have full power to alter, amend or repeal this act at any time, without any judicial investigation, and vested rights to the contrary notwithstanding.

Approved, February 2, 1846.

Subsequent amendments have increased the number of Trustees to thirty, divided into three classes, each of which serves three years, nine of whom should constitute a quorum, and have removed the requirement that all departments of the college be located in Beloit.

Middle College, the first college building, was begun in the autumn of 1846. The first Freshman class began work November 4th, 1847, under the instruction of Mr. S. T. Merrill, reciting in the basement of the old stone church and later in a private house. Professor J. J. Bushnell came in April and Professor Joseph Emerson in May, 1848; Professor William Porter in September, 1852; Professor J. J. Blaisdell in September, 1859. Rev. Aaron L. Chapin was elected president, November 21st, 1849, and was inaugurated July 24th, 1850. On his resignation of the presidency, June 29th, 1886, Rev. Edward D. Eaton was elected his successor, and was inaugurated November 4th, 1886. December 31st, 1905, President Eaton resigned his position, on account of impaired strength, but was re-inaugurated, after a period of rest, on March 4th, 1908.

Little by little the funds of the college have been enlarged; new buildings have been erected to meet its growing needs; and the number of students and teachers has more than kept pace with the increase in equipment. Since the first class, consisting of three men, was graduated in 1851, there has been no break in the succession of graduating classes. Until 1874, only a classical course was offered; in that year a philosophical course was added and was discontinued in 1900; the science course was introduced in 1892. The Chapel building, dedicated in 1892, gave an appropriate centre for the religious life of the college. Women were admitted to the college classes in September, 1895, and were first graduated in 1898. In 1898 also, Emerson Hall was completed to provide accommodations for the young women. The opening of the Smith Gymnasium in 1904, and of the Carnegie Library in 1905, mark further steps in the equipment of the institution for its expanding life.

Since the institution was founded, over six thousand young men and young women have been enrolled as students in its classes, of whom 1,251 have been graduated.

The founders and most active early friends of Beloit College were chiefly Congregationalists and Presbyterians; but it has always had warm support from many branches of the Christian church, and it strives to continue to be evangelical and non-sectarian. It was established with the conviction that thoroughness in education was as good a thing for the West as for the East, and that a thorough and rounded education must combine learning, morality, and religion.

The strenuous endeavor is made to teach the heart as well as the mind, and to give a personal care that shall reach the individual needs of every student. The lives and the work of its former students constitute the best evidence of its spirit and its success.

Location and Equipment

Beloit College is located at Beloit, Wisconsin, near the southern boundary line of the state. Beloit is a thriving city of about fifteen thousand population, situated on the Rock River; it is at the junction of the Chicago and Northwestern and the Chicago, Milwaukee and St. Paul railroads and is in the center of a prosperous farming section. It has several large manufacturing establishments mostly in the iron industry; has ample railroad, postal and telegraph facilities and, while sufficiently large to meet all ordinary requirements for modern life, does not offer the distractions of the great cities.

The college buildings are located on high gravel bluffs east of Rock River, and the dormitories and other buildings are well drained and dry all the year through. The city of Beloit has an enviable record for general healthfulness—a record made possible by its fine water supply, excellent sewer system, the porous soil beneath, and the general elevation above the river level.

GROUNDS AND BUILDINGS.

The College grounds including the College Campus on which are located most of the College buildings, and the grounds for the women's dormitories to the north of the main campus, comprise about forty acres located on high ground and well covered with trees. The large athletic grounds, known as College Field, are situated one-half mile to the east.

The buildings have been named in most cases, for the principal donor of funds for their erection.

MIDDLE COLLEGE.

Middle College, the original college building, the cornerstone of which was laid in 1847, is located in the center of the College Campus. It is a four story brick building with basement and high roof.

On the first floor are the administrative offices of the Dean, Secretary, Treasurer, Registrar and Recorder.

On the second and third floors are recitation rooms and on the fourth floor are rooms fitted up for use of the College literary societies.

THE COLLEGE CHAPEL.

The College Chapel, largely the gift of the late Mrs. A. E. Doyon of Madison as a memorial to her mother, Mrs. J. S. Herrick, was erected in 1892, and is wholly devoted to the religious services of the College. It is built of Wauwatosa limestone and is surmounted by a clock tower. On the main floor is the large auditorium capable of seating 500 persons for the daily chapel and the Sunday Vesper services. There are two conference rooms adjoining, which can be opened into the main auditorium, and the President's private room. In the auditorium is a large two-manual pipe organ.

CARNEGIE LIBRARY.

The beautiful new library given to the College in 1904 by Mr. Andrew Carnegie, occupies a site on the east side of the campus, south of the Chapel. It is of cut Bedford stone and is practically fireproof, the stack-room being wholly so. The building is of the Renaissance style of architecture, 95 by 75 feet, with two stories and basement. On the main floor is the delivery room, adjoining which are the metal stacks, accessible to the students for reference. On either side are reference and periodical rooms, with smaller side rooms for consultation and administrative purposes. In the basement are rooms for receiving and distributing books, for files of newspapers and periodicals, and for storage.

On the second floor are consultation rooms and a large reading room reserved for the use of the Senior class. The President's executive offices are on the second floor on the south side.

SCOVILLE HALL.

Scoville Hall, the gift of the late James W. Scoville of Oak Park, Ill., was built originally to accommodate the Beloit College Academy. It is a beautiful two-story brick building with heavy brown-stone trimmings and is located at the extreme southern end of the campus. There are two floors with high attic and deep basement; on the first floor are three recitation rooms for Public Speaking, Rhetoric, and German, and a comfortable rest room for the young women. On the second floor is a large auditorium seating three hundred, which is used for musical recitals and other College purposes; there is a smaller auditorium adjoining, which can be opened into the larger, and a room used by the Music department.

The Psychological laboratory is located on the third floor, south side. Through the gift of the Trustees of the William E. Hale fund, devoted to the advancement of scientific research, the College enjoys the use of considerable apparatus for psychological study. This apparatus includes a Hipp chronoscope, Mosso ergograph, control drop, sphygmograph, pneumograph, Marey tambours, electric time-markers, kymograph and accessories. The above material has been added to by the purchase and manufacture of much material for the study of the senses, all of which is available for demonstration and for elementary practice in the courses in Experimental Psychology.

THE NORTH COLLEGE.

The North College is a three-story brick building with basement. Each of the three floors is used for recitation rooms; the basement has been fitted up recently for the College Center, an institution managed by the students where all college men can come together in a social way. The rooms are attractively furnished and are supplied with magazines and periodicals.

PEARSONS HALL OF SCIENCE.

The College is indebted to the generosity of Dr. D. K. Pearsons for the noble building for the physical sciences. The edifice is two stories in height, with roof-story and high basement, making substantially four stories. It has an east frontage of 136 feet, with north and south wings extending back 115 feet, and forming the sides of an open court. The inside walls are finished in brick, and slow-burning construction has been used throughout, thus greatly reducing the danger from fire. All the rooms are planned with reference to convenience, ventilation, and light. Gas and water are carried wherever they are needed. On the first floor is an auditorium for lectures and meetings of various sorts, with seats for three hundred persons; this large auditorium has been overhauled recently and fitted with a permanent projection lantern.

The department of Physics occupies the first floor and the basement on the south side. A lecture room, a large general laboratory, an apparatus room, a research laboratory, and an office are located on the first floor. A large electrical and magnetic laboratory, a dynamo room and shop, and a photometric and photographic dark-room are situated in the basement. The equipment of the department has recently been materially increased by the addition of a considerable amount of new apparatus designed for general laboratory purposes, and also by a complete set of tools and machinery for the laboratory shop. The apparatus room is well stocked with modern apparatus for lecture and general laboratory use, including electrical and optical instruments of precision.

The electrical and magnetic laboratory is equipped with a number of alternating and direct-current motors and generators, together with transformers and other accessory apparatus. The electrical equipment also includes suitable storage battery capacity.

The laboratory shop is equipped with a modern screw-cutting lathe, tools for both metal and wood working, wood and iron benches, a power air-compressor, and other necessary appliances. A fully equipped long-distance wireless telegraph station has recently been established at the laboratory, thus affording special facilities for illustrating modern electrical progress.

On the first floor a room has been fitted up for Mechanical Drawing and Surveying. It has drawing tables and boards and a filing cabinet, and is lighted with drop incandescent lights. The Surveying outfit contains three engineer's transits, an engineer's compass, a Burt solar compass, a Saegmiller solar compass, Y-level, plane-table, planimeter, tapes, tape-testing apparatus, stadia-rods, leveling-rods, sextant and horizon, and various minor instruments for field work and plotting.

The department of Chemistry is located in the north wing and occupies two floors and the basement. On the first floor are the lecture-room, balance-room, quantitative laboratory, a smaller laboratory, store-room, and the professor's private room.

On the lower floor are a large laboratory for qualitative analysis, a second laboratory for organic and special work, a sulfuretted hydrogen room, a dark room, and room for the instructor. In the basement are large store-rooms.

All of the laboratories are fitted with tables and appliances of the best construction. The lower laboratories have recently been refitted at considerable expense and provided with flues exhausted by motor fan; the capacity of the fan is such that the air of the whole lower floor is changed every three minutes. A second electric exhaust fan is placed in the flues leading from the laboratory on the first floor.

The equipment of the department includes lecture apparatus for illustrating special topics. Also many special pieces of apparatus are provided for the use of students in laboratory work. There are four fine analytical balances and seven suited for the advanced work in General Chemistry. A large stock of chemicals and duplicate apparatus is carried so that each student is well supplied for individual work both in the earlier classes and the later more difficult analytical and research work.

The department of Geology occupies the second and third floors of the south wing. The department is a depository for all maps, documents and specimens issued by the United States Geological Survey. The library is unusually complete and well equipped with reference books needed for advanced study.

There are large collections of rocks and minerals illustrating the different types of structure and texture needed for laboratory purposes. Another large series represents the different geological periods in various parts of the globe. The College owns an exceptionally complete series of fossils, including all that are necessary for a thorough understanding of the past life of the globe. Each period of geological history is well illustrated by the characteristic fossil forms. The department is equipped with a lantern and numerous lantern slides for illustrating different geological features and phenomena.

The departments of Botany and Zoology occupy the second and third floors of the north wing and central portion of Pearsons Hall. The laboratory for general Biology and Zoology is admirably lighted by east and west windows and skylight overhead. The room is adequately equipped to accommodate fifty students at one time; it has a large aquarium table with running water, arranged for keeping living material under normal conditions. In the north wing on the second floor are situated the laboratories for Histology, Embryology, and Plant Morphology. The Plant Morphology laboratory is equipped to accommodate thirty students; the Histology and Embryology laboratory has provision for twenty.

The laboratories are equipped with compound microscopes for advanced work, and dissecting microscopes for each student. For work in Histology the laboratory is equipped with microtomes as follows: a Bausch and Lomb Minot rotary microtome, a Zimmerman rotary microtome, two Thoma model microtomes, and hand microtomes. The lecture-room is equipped with a Bausch and Lomb Projection Lantern for both lantern slides and microscopic slide projection; a set of Dodel-Port charts for plant morphology, and a number of the Leuckart charts for animal morphology. For work in Embryology and Anatomy, there are two complete sets of models for the embryology of the frog and chick, and a set of skeletons illustrative of the vertebrate animals. Illustrative material of the different groups of animals is also provided for the work in Zoology.

SMITH OBSERVATORY.

Smith Observatory, erected by the late Mrs. J. S. Herrick, in memory of her brother, is a separate stone structure. It is well equipped for practical astronomical work, being provided with the following apparatus: Clark equatorial telescope of 9.5 inches aperture, mounted by Warner and Swasey, provided with micrometer, spectroscope, etc.; transit instrument of 2.5 inches aperture; Thomas mean-time clock; Howard sidereal clock; Negus chronometer; Fauth & Co. chronograph electrically connected with sidereal clock and transit instrument; sextant; levels, etc. A 12.5-inch reflecting telescope is being mounted and will be ready for use in the summer of 1913.

There is a well-selected astronomical library of about 750 volumes containing files of most of the standard American and foreign astronomical journals, as well as the usual standard texts and references. There are also complete outfits for projection work, including more than four hundred lantern slides, among which are the most celebrated views of celestial objects. The observatory will be open to visitors by previous arrangement with the director.

THE SMITH GYMNASIUM.

The Smith Gymnasium for men, which is one of the most attractive buildings on the campus, was erected in 1904-5 as a memorial to the late E. D. Smith of Menasha, Wis. It is built of vitrified brick, and is thoroughly adequate in its proportions and appointments for systematic physical training. The plans for the building were matured after a thorough study of some of the best gymnasium buildings in the country.

In the basement are a base-ball cage, hand-ball courts, and rooms for fencing, boxing and bowling alleys. On the first floor is the main locker-room, fitted with 200 individual lockers with the most improved devices. This room is connected with the main bath-room, which is provided with shower and tub-baths and lavatory. Opening out of this room is a special dressing-room for visiting athletic teams. On the first floor also are the reception and examining rooms and the director's room. On the second floor is the main gymnasium 105 by 51 feet; this is completely fitted with all modern forms of apparatus for heavy gymnastics and special work. There has recently been installed a large amount of new apparatus, including a twine batting cage. On the third floor is a running track and visitors gallery.

MEMORIAL HALL.

Memorial Hall, built in commemoration of the graduates and students of Beloit College who served in the Civil War, is a high stone structure containing two floors and a basement. The building is covered with a slate roof and is semi-fireproof. On the first floor is the valuable Logan Archæological Museum, systematically arranged; the second floor also has been fitted up with new cases during the past year to receive the recent large accessions to the collections.

THE ART HALL.

The Art Hall, formerly the College Chapel, is a two-story brick building located immediately south from the Middle College. On the first floor are two large rooms: one is devoted to the Fisher collections described more fully under Art; the other is used by the curator of the art collection for administration of the collections. The Hall also contains a large and valuable art library. On the second floor are the general collections of art suitably arranged.

THE PRESIDENT'S HOUSE.

The President's House was built by the Trustees in 1910. It is a handsome building of the Colonial style of architecture and is located on college grounds adjoining the campus.

DORMITORIES.

CHAPIN HALL

Chapin Hall, the gift of Dr. D. K. Pearsons and named by him in honor of President Chapin, has been in use since September, 1891, and accommodates about fifty-five young men. It has hard-wood floors, furnished reception room, parlor and bath-rooms. The building is heated by steam and lighted by electricity. All rooms are furnished with bedstead, spring bed, hair mattress, pillows, bureau with mirror, study table, chairs, bookshelves and window shades. The occupant will furnish bedding, towels, rugs and such conveniences and decorations as may be desired.

The management of Chapin Hall is under the charge of the general secretary of the college. An association composed of all the men of the Hall, both Faculty and students, seeks by social gatherings and athletic activities to promote a spirit of helpful comradeship and to increase the significance of Chapin Hall in the life of the college.

In choice of rooms preference is given to previous occupants of the building in order of application, except that an occupant of any room may retain the room if he so desires, unless he is excluded for cause. After the close of the college year all applications, whether from previous occupants or others, will take their turn as received. All reservations, to be valid, must be accompanied by a payment of $5.00. This amount will be applied upon the rental at the opening of the semester. Notice of withdrawal of reservation must be given to the Registrar before September 1st; otherwise, if the room is not taken by the person making the reservation, the fee is forfeited.

Correspondence as to accommodations should be addressed as early as possible to the Registrar, Beloit College, Beloit, Wisconsin.

EMERSON HALL

This building, also given by Dr. Pearsons to the College, is a beautiful dormitory for women, named by him Emerson Hall, in honor of Professor Joseph Emerson. The Hall was planned after a careful study of similar buildings elsewhere, and is unsurpassed in comfort, taste, and convenience. There are accommodations for about forty-five women.

The rooms are furnished with study tables, chairs, bookcases, college cots, hair mattresses and pillows, and bureaus with mirrors. Linen, bedding, rugs, and such other conveniences and decorations as may be desired are furnished by the occupants.

The Women's Gymnasium occupies a large, well-ventilated room on the third floor, and is thoroughly equipped with modern apparatus. On the same floor, in connection with the gymnasium, are bath and dressing-rooms.

The building is heated with hot water and lighted throughout with electricity, which all students use. The Dean of Women makes her home in the building.

JUNIOR HOUSE

Junior House furnishes accommodations for about twenty young women of the Junior Class, for whose use the building has been set apart. This opportunity for an independent class life is greatly valued by the young women of the successive classes. The building is heated with hot water and lighted by electricity.

STOWELL COTTAGE

Stowell Cottage, the gift of Mrs. Charles B. Stowell, of Hudson, Mich., has been completely remodelled and its accommodations increased. The rooms have been newly furnished, and a hot-water heating plant has been installed; like all the other dormitories, the Cottage is lighted by electricity.

The building furnishes excellent accommodation for twenty young women of the Freshman Class; it is under the supervision of a competent chaperone.

THE JULIA SALMON COTTAGE

The Julia Salmon Cottage, named in honor of the late Miss Julia Salmon, is a wooden building to the south of the President's house. It has been remodelled and fitted up to accommodate eight young women of the Freshman Class. It also is under the supervision of a competent chaperone who makes her home with the young women.

Rooms in the womens' dormitories are assigned early in June, students already in attendance having preference. After that time rooms will be assigned in order of application by the Registrar, to whom all correspondence in regard to rooms should be addressed. A deposit of $10.00 must be made when rooms are reserved. This amount will apply toward payment of bills in the fall, or will be returned if the Registrar is notified *before August first* that the applicant desires to cancel her reservation.

THE HEATING PLANT.

The heating plant is a brick building located west of the Gymnasium. It contains three large return water tube boilers with down-draft grates, which furnish steam for heating all of the buildings on the campus. The system used is the Paul vacuum system. At present plans are being prepared to enlarge the plant by the installation of electrical apparatus for lighting and power purposes.

COLLEGE FIELD.

During the summer of 1911, the athletic field was enlarged by the addition of a tract of land adjoining it on the east. College Field, a large level piece of ground with fine turf surface, contains a football gridiron and new baseball diamond. It is provided with a well-laid quarter-mile running track, a gift from the class of 1911 and the Trustees. There is a space for 220 yards of straight track and accommodations for field contests. The grand-stand and bleachers have a seating capacity of about four hundred.

Administration

REGISTRATION AND ENTRANCE.

On entering college, and at the beginning of each semester, every student is required to register at the hour and place stated in the Calendar. Students not registering at the specified time are required to pay a registration fee of one dollar.

After each vacation recess, registration is counted as the first exercise. Failure to register on time is counted as five ordinary absences.

Students applying for admission to college from any preparatory school must present before registration a certificate of admission, signed by the principal.

Advanced credit will be given by the College for work done in secondary schools only upon examination, unless the school from which the record is presented has been inspected by the Faculty of the College, and its courses approved by them as entitled to such credit. Graduates of normal schools are admitted with advanced credit.

Students entering college from other institutions of collegiate grade, and desiring advanced standing, must present an honorable dismissal, together with full records, from the college or university in which they have studied.

For full details of requirements for entrance to College see under Admission.

ADVISERS.

Each Freshman on entering college is assigned to some member of the Faculty who becomes his adviser during

the first two years of the college course, assisting him in selecting his studies and, in a general way, aiding him in working out the problems of his college life and work. During the last two years, the professor under whom he takes his Major acts as his adviser.

ELECTION OF STUDIES.

Students are required to take at least fifteen hours of work in each semester of the college course. A larger number of hours may be elected upon recommendation of the adviser. A student may also be permitted to elect less than fifteen hours, for specific cause, by vote of the Faculty; but under no circumstances will a student be allowed to take less than twelve hours of work.

The words *Year Course,* appended to the title of a course in this catalogue, indicate that election of the course must be made for the entire year. Such a year course can be dropped at the end of the First Semester only as provided for in the Administrative Rules.

The election of studies for the First Semester by Freshmen and others entering College for the first time will take place on the Tuesday preceding the opening of the College in the fall. The hours will be from 9:00 A. M. to 4:00 P. M.

Except for new students, the regular election of studies for each semester will take place at the times appointed in the College Calendar.

For every change in elections after the above dates a fee is charged; if the change is made before the recitations of the new semester have begun, the fee is fifty cents; after the beginning of recitations it is one dollar.

Before presenting election cards to the Recorder, Freshmen and Sophomores must secure the signature of the class adviser, in approval of their elections. At the spring election in Sophomore year, for the first semester of Junior year, the student must signify his choice of a Major, and must secure the signature of the head of the department in which the Major subject is taken, and thereafter all elections must be approved by such Major instructor.

No student will be admitted to classes in any course until his class card, properly signed by the Recorder, has been presented to the instructor in that course.

SCHOLARSHIP AND CREDITS.

The student's work at Beloit College is estimated in terms of hours and credits. An hour, in this connection, means class-work taken one hour per week for a semester. A credit is a measure of the quality of the work performed.

A certain number of semester-hours of work must be completed each year in order to secure advancement to a higher class. Students will be classified as Freshmen until they have completed twenty-one semester hours; as Sophomores until they have completed fifty-four hours, and as Juniors until they have completed eighty-four hours. One hundred and twenty semester-hours are required for graduation.

A certain number of credits must also be secured before a student can pass from a lower into a higher class. Eight credits are required during Freshman year, eight credits during Sophomore year, ten credits during Junior year and ten credits during Senior year. An average standing of C+ is required for graduation. Failure to secure three-fourths of the required number of credits during any given year of the course prevents the student from passing into the next higher class, except by faculty permission. Failure to secure the ten credits required during Senior year or to have maintained an average of C+ during the course debars the student from graduation.

According to the system of grades now in use by the College, AA indicates work of an extraordinary quality; A excellent work; B good work; C fair work; D poor work; F a failure with privilege of re-examination, and FF a failure without such privilege. A grade of FF received in any study during Freshman and Sophomore years requires repetition of the course, or completion of a course from the same group, the succeeding year. Credits are estimated as follows: a grade of AA secures one credit for each semester-hour completed; A eight-tenths of a credit; B five-tenths of a credit; C two-tenths of a credit; D passes the student but gives no credit. A plus or a minus accompanying a grade adds or subtracts one-tenth of a credit. It will be seen that in order to maintain an average standing of C+ for graduation it is necessary for the student to receive at least 36 credits on the basis of 120 hours for the course. For graduation honors based on credits earned see below under Degrees.

(For the class of 1913, extension of credits, conditions for graduation and assignment of graduation honors will be on the basis of the statements of the College catalogue for 1910-11.)

EXAMINATIONS AND REPORTS.

Final examinations are given in all courses at the end of each semester. For the Freshman class, in addition to the regular semester examination, mid-semester examinations are held, and reports on the same are sent to the parents. Detailed reports of the standing of Freshmen and Sophomores are sent to their parents at the close of each semester; summary reports stating the total number of hours and credits made by the student during the semester are given out to the Junior and Senior classes as soon as possible after the close of each semester.

REQUIREMENTS FOR GRADUATION.

GRADUATION IN FOUR YEARS

A candidate for the degree of B. A. or B. S. must have completed 120 semester-hours of studies which include 2 hours of Biblical Literature, 4 hours of Rhetoric, 1 hour of Ethics, a Major of 18 to 24 hours and a Minor in one department other than that in which the Major is taken. In addition he must have maintained an average standing of C+ (36 credits on the basis of 120 hours) and must have met fully the requirements of language, groups of studies and gymnasium as detailed under The Course of Study.

GRADUATION IN THREE AND ONE-HALF YEARS

A student may complete the college course in three and one-half years by taking eighteen hours of work in each of five semesters. Permission to do this will be conditioned on his maintaining an average grade of B. Written notice of intention to complete the course in three and one-half years must be given at the beginning of the third year. On completion of the requisite number of hours the student may, on petition, obtain leave of absence until Commencement, at which time the degree will be conferred.

GRADUATION IN THREE YEARS

A student who presents on entrance to college advanced credits equivalent to twelve semester-hours, may be allowed to take eighteen hours each semester, in order to obtain a degree in three years. Written notice of intention to complete the college course in three years must be given at the beginning of the second year. Permission to take the extra hours, and to graduate in three years, may be withdrawn at any time, if the student's work is not satisfactory.

DEGREES.

The Bachelor's degree is conferred upon completion of a four years course of study comprising not less than 120 semester-hours of work in which an average of at least C+ has been maintained.

The degree is conferred *cum laude* upon students who have maintained an average of B+; *magna cum laude* upon those who have maintained an average of A; *summa cum laude* upon those who have maintained an average of A+.

The degree of Bachelor of Arts is conferred upon students whose Major is in Group I or Group II (see Course of Study); the degree of Bachelor of Science upon those whose Major is in Group III.

STUDENT CO-OPERATIVE BOARDS.

There are three student co-operative Boards acting in an advisory capacity with the administration of the College.

THE STUDENT COUNCIL

The Student Council is composed of fourteen members, six young men being elected from the Senior class, four from the Junior class, two from the Sophomore class, and two from the Freshman class. The Council meets with the President and Dean of the College on call of the President or members of the Council itself. Questions relating to student welfare are frequently referred to it and recommendations are made to the student body and to the Faculty of the College for action.

THE WOMEN'S STUDENT GOVERNMENT ASSOCIATION

The Women's Student Government Association is made up of the young women of the College. The association is managed by a board of officers elected by the young women, which, under the supervision of the Dean of Women, controls the life of the students in the women's dormitories with all details of its discipline. It may through the Dean of Women refer to the Faculty of the College matters requiring Faculty action.

THE HONOR COMMITTEE.

All written examinations and tests are conducted under the Honor System. No officer of the College is present during an examination, but each student is required to write on his paper a pledge that he has neither given nor received any aid during the examination. The administration of the Honor System is in the hands of a student committee. By the constitution of the system it is the duty of every student to report to the committee all evidence of dishonesty in examination that he knows of by observation. If after investigating such evidence the committee finds a student guilty of dishonesty, it reports the case to the Faculty through the Dean, with a recommendation for discipline.

The application of the Honor System has recently been extended to cover the observance of the rules of the College Library.

ADMISSION OF WOMEN TO BELOIT COLLEGE

By action of the Board of Trustees, the number of young women who will be admitted to the College each year is limited to the number which can be accommodated in the women's dormitories. The Trustees and the Faculty believe that the interests of the College and of the young women in attendance are best conserved when the young women are in College dormitories under the immediate supervision of a competent Dean of Women. It is impossible to maintain this supervision when women students are allowed to room in private houses. This limitation, however, does not apply to those who reside with parents or relatives in the city of Beloit.

The regulation will be strictly adhered to, and no deviation from it will be allowed unless exceptional circumstances seem to warrant the Faculty in suspending the rule in individual cases.

The women's dormitories accommodate about eighty-five students. This enables the College under the new regulation to admit about thirty young women each year into the Freshman class. The names of applicants who do not secure admission in any given year will be placed on the "Waiting List", if desired, and will be given accommodations the following year. This desire, however, must be distinctly communicated to the Registrar, and a deposit of ten dollars made with the College Treasurer to insure the applicant a place on the "Waiting List".

Remittances should be made payable to "Beloit College" and sent to the Registrar when the application is made. This Registration Fee will be refunded if notice is given *before August first* that accommodations applied for are not desired. A special circular giving details as to rooms and board in the dormitories may be had upon application to the Registrar of the College.

General Information.

WORSHIP.

There is a united religious service each week-day, except Saturday, in the College Chapel.

On Sunday afternoon the students are required to attend worship at the College Vesper service in the Chapel. Weekly Y. M. C. A. and Y. W. C. A. meetings and a mid-week College Conference are held; also classes for the study of missions. The attendance of the students is welcomed and their assistance is valued by the churches and Sunday Schools of the city; many have been useful workers in outlying Sunday Schools.

EXTENSION LECTURES.

A majority of the members of the Faculty offer extension lectures upon subjects connected with their departmental work. The subjects selected are not of a technical character, but are of common interest, and have been prepared for high schools and general audiences. Principals of high schools or others who wish lectures are invited to make application to the Registrar of the College, who will send the list of subjects and lecturers, and will furnish any other information desired.

A small fee is charged for the lectures, in addition to the expenses of the lecturer.

THE BELOIT COLLEGE LECTURES.

The College offers annually a course of public lectures on the living issues of the day and on topics illustrative of the work of the different departments of instruction.

In doing so the faculty recognizes its obligation to afford every College student an opportunity to hear at a nominal cost leading representatives of the American platform and also to present to the community, through the appearance upon the course of different members of the Beloit College faculty, popular illustrations of the scholarly work in the different departments of the institution.

EXCHANGE PROFESSORSHIPS.

By an arrangement with Harvard University an exchange professor who will offer special courses of lectures, is now assigned to Beloit College from year to year. These lectures are given in connection with the College work and will form an integral part of the regular curriculum for the department concerned. In addition the lecturer will offer a course of lectures of a more general character open to all students and friends of the College.

THE PORTER MISSIONARY LECTURES.

A fund has been established in the College, providing for the delivery and publication of lectures upon missions. According to the terms of endowment, "it is desired that these lectures be delivered biennially, upon themes covering the wide range of missionary history or biography, or of the conquests to our larger knowledge of mankind by missionary travel or research, or of the moral triumphs of the Gospel in its appeals to men."

The first course of lectures under the endowment was given by the late Rev. Edward A. Lawrence, D.D., of Baltimore, in April, 1892; the second by Rev. Arthur H. Smith, D.D., '67, of Pang Chuang, China, in March, 1894; the third by Professor William Douglas Mackenzie, D.D., formerly of Edinburgh, now President of Hartford Theological Seminary, in May, 1897; the fourth by Rev. James D. Eaton, D.D., '69, of Chihuahua, Mexico, in May, 1900; the fifth by Robert E. Speer, M.A., of New York, in October, 1901; the sixth by the late Rev. Charles Cuthbert Hall, D.D., LL.D., of New York, President of Union Theological Seminary, in May, 1904; the seventh by Rev. Lyman Abbott, D.D., LL.D., of New York, in January, 1906; the eighth by Robert E. Speer, M.A., of New York, in April, 1907; the ninth by Rev. Arthur Judson Brown, D.D., of New York, in May, 1909; the tenth by Rev. Robert A. Hume, D.D., Ahmednagar, India, in January, 1911; and the eleventh by Rev. Harlan Page Beach, M.A., Professor of the Theory and Practice of Missions, Yale University, New Haven, Conn., in January, 1913.

THE GEORGE GREINER SCHNEIDER LECTURESHIP.

A fund has been provided by Mrs. Marie Greiner to found a lectureship in memory of George Greiner Schneider, a member of the class of 1905 The first three courses of lectures on this foundation were delivered by Rev. David Beaton, M.A., of Chicago. The subject of the first, in March, 1906, was "A Spiritual Interpretation of Life"; that of the second, in February, 1907, "The Scottish Spirit and Its Teachings"; that of the third, in February, 1908, "The West and Its Problems". The fourth was given in March, 1910, by Mr. Hamilton Holt of New York, on the subject, "International Peace"; the fifth was given in November, 1911, by Dr. Caspar Rene Gregory of Leipzig, on "Student Life in German Universities", on "Political and Social Conditions in Germany", and on "The Search for Biblical Manuscripts on Mt. Sinai".

The sixth course was given November, 1912, by Dr. Eugen Kuehnemann of Breslau, on "Tolstoi" and on "Goethe".

GRADUATE STUDY.

Opportunity for advanced work in certain departments of the College is given to graduates of Beloit College and other approved institutions; this work may or may not lead to the degree of Master of Arts. It is intended that this degree shall be granted only for advanced liberal study; work of a professional nature will not be accepted for the degree. At least fifteen hours must have been taken under the direction of a member of the Faculty of the College.

Courses may be arranged for by application to the Committee on Graduate Study.

MUSIC.

Music is an important element in the religious, the intellectual, and the social life of the College. The music at the daily chapel service and at the Vesper service on Sunday is led by the College choir, supported by a large and excellent two-manual pipe-organ. The College Library contains a valuable collection of musical literature, to which important additions are made each year. In addition to courses described in the Course of Study, mention should be made of facilities afforded students for the study of music through the chapel choir, the organizations for the practice of oratorio and orchestral music, and the glee clubs. For those sufficiently advanced, opportunity will be given for public performance in concerts and on other occasions where music is introduced.

FINE ARTS.

The College is fortunate in the possession of Art Collections of unusual richness and variety which are placed in the Art Hall, under the supervision of Mrs. Joseph Emerson as Curator.

The Fisher Collection of Greek casts is of great value, not only to students of Greek art and life, but for the general culture of the college and the community. It consists of one hundred and twelve casts of unique Greek sculpture, prepared and presented by Mr. Lucius G. Fisher, Jr., in memory of his honored father, long a trustee of the college. Carefully selected by eminent archæologists, and cast in moulds from which these are the first impressions, it furnishes original examples of the progress of Greek scultpure from its first rude but grand beginning to the nobility of the fine Greek art of Pheidias, the oriental grace of Praxiteles, and the colossal Roman strength of later days. It occupies the entire lower hall of the Art Gallery, and is a treasure not only unique, but of inestimable value for illustration, instruction, and inspiration. In addition to the Greek casts, there are three hundred pieces of statuary and reliefs, ancient, mediæval, and modern, making a total of over four hundred casts.

The additions to the Art Collections during 1910-11 were of unusual value and interest; notable among them are four oil portraits of distinguished alumni of the College, viz: those of James W. Strong, D.D., LL.D., 1858, President Emeritus of Carleton College; Thomas C. Chamberlin, LL.D., SC.D., 1866, former President of the University of Wisconsin; Jerome D. Davis, D.D., 1866, founder, with Neesima, of Doshisha University, Kyoto, Japan; Henry

Clay Simmons, D.D., 1869., founder and President of Fargo College.

During the year 1911-12 the collections were further enriched by the addition of six portraits of the College alumni, viz: that of Alexander Kerr, M.A. LITT.D., 1855, Professor Greek Language and Literature, *Emeritus,* the University of Wisconsin; Lucius G. Fisher, M.A., 1862, donor of the Greek casts; Henry D. Porter, M.D., D.D., 1867, and Arthur H. Smith, D.D., LL.D., 1867, both missionaries to China; James D. Eaton, D.D., 1869, Missionary to Mexico; Thomas D. Christie, D.D., LL.D., 1871, Founder and President of St. Paul's College, Tarsus, Turkey.

A marble bust of Edward D. Eaton, D.D., LL.D., 1872, President of Beloit College for 25 years, chiselled by Mr. Lorado Taft and presented to the College by Alumni and friends at the Commencement in June, rests in the upper Art Hall upon a beautiful pedestal of Wisconsin mahogany granite which bears a suitably inscribed brass tablet surrounded by a wreath of laurel.

Other noteworthy additions during the year were: a cast of an angel from the Chapman Memorial, Forest Home Cemetery, Milwaukee, by Mr. Daniel French, presented by Mrs. Joseph Emerson and classmates; a marine painting, "Sunrise on Lake Michigan", by Charles Hallberg; and a beautiful oil painting entitled "After Tea", by Miss Clara Kretzinger of Chicago.

Early in the year the "Mary Ripley Collection", as it is to be known, was received and is now being unpacked and arranged in the Art Collections. This collection includes about 2,500 books, many of them limited editions in rare and beautiful bindings, illustrating the History of Art in all lands; about 2,000 lantern slides illustrating life in China, India and Ceylon; and upwards of 10,000 photographs, many of them finely colored.

Other engravings and photographs, representing the art, scenery and literature of all countries, number over 18,000. The cataloguing of these and of references for reading upon them is slowly progressing.

A fund of $500.00, the income of which is to be given annually for the best essay upon a topic related to the Fine Arts, has been given by a lady who withholds her name. The conditions of the award will be found under the Fine Arts Prize.

THE LIBRARY.

The library is open, in charge of attendants, from 7:40 to 11:40 A. M., and from 1:00 to 6:00 and 7:00 to 9:30 P. M., each weekday.

The present number of books is about 48,300 bound volumes and 32,500 pamphlets. Between 2,000 and 2,500 volumes are added each year by gift or purchase. These figures include the United States public documents, for which the library is a depository. The income from the following funds is devoted to the purchase of books:

Academy Library Fund (Pedagogy)	$ 500
Bushnell Fund (Astronomy and Mathematics)	500
Colton Fund (Economics)	5,000
Davis Fund (English Literature)	500
Dunbar Fund (Chemistry)	100
Knowlton Fund (General)	500
Mayher Fund (Chemistry)	1,000
Ryland Fund (General)	4,000
Henry D. Smith Fund (Public Speaking)	1,000
Talcott Fund (Science)	5,150
Total	$18,250

The income from these funds is supplemented by appropriations from the College treasury, large annual gifts by Mr. Horace White, and occasional gifts from many generous friends of the College.

Particular care is given to enabling the students to use the library to the best advantage. The books are arranged according to the Dewey decimal classification system and catalogued by card-index. All students have free access to the shelves, and may draw books from the library under the usual restrictions. Books that are in constant use by the students in the several classes are placed on reserve shelves where they are equally accessible to all concerned. Poole's Index facilitates the use of the bound periodicals, of which the library contains several thousand volumes. The library is well supplied with the standard works of reference. In the reading-room are the current numbers of the leading literary and scientific journals, with the best of the magazines and weeklies and several dailies. The number of periodicals received is now 235, many of which are the gift of the Archæan Union. The general equipment of the building is such as to make it a convenient and attractive place for study.

A separate departmental library containing many of the books relating to the sciences is kept in Science Hall.

The resources of the Beloit Public Library, which contains about 15,000 volumes, forms a valuable supplement to those of the College Library, especially in the field of fiction and popular literature. They are freely accessible to College students, who make large use of them.

PHYSICAL EDUCATION.

MEN

A physical examination is required of all men upon entering college. All men in the Freshmen and Sophomore classes are required to take three hours a week of physical training. This is carried on under the supervision of the director, and must be completed before the beginning of the Junior year.

Regular classes are held in the gymnasium from 3:30 to 4:30 daily; also from 4:30 to 5:30 on Mondays, Wednesdays and Fridays. Special classes in boxing and wrestling are held on Mondays, Wednesdays, and Fridays, from 5:30 to 6:00 P. M.

Students are allowed to select forms of exercise other than regular gymnastic work, provided that upon examination they are found to be physically adapted for the work which they desire. Such substitute forms of exercise may consist in work with the various athletic teams, or in more special forms of exercises, such as boxing, fencing, and wrestling. Only one hour of credit is allowed for the work done in any given day.

WOMEN

In the department of physical education for women, three hours a week of gymnasium work are required of all Freshmen and Sophomores. There are also classes in æsthetic and folk-dancing open especially to Juniors and Seniors. Each student, at the beginning of her Freshman year, and again at the end, is given a physical examination. A third examination is made at the end of the Sophomore year.

A course in elementary physiology and hygiene, in connection with the gymnasium work, is required of all Freshmen.

The gymnastic curriculum includes free exercises, light and heavy apparatus work, drills of various kinds and games; also tennis and cross-country tramping.

The aim of the department is to raise the standard of health by toning up all the bodily functions, and developing and strengthening the muscles.

The required gymnasium suit is of dark blue, light weight serge, with white middy blouse. Special shoes can best be obtained in Beloit.

An athletic fee of seven dollars is included among the incidental expenses collected from each student. In consideration of this, there is issued to each student a season ticket, admitting him free of charge to all home athletic contests held by the College.

All field and track athletics are under the immediate personal charge of the Director of the Gymnasium and Athletics.

The athletic organizations of the College are managed by the Athletic Board of Control, a board made up from the alumni, faculty, and students, securing to all athletic matters the highest efficiency combined with the greatest economy.

STUDENT EMPLOYMENT BUREAU.

Beloit College maintains an Employment Bureau to aid students who desire work. The bureau is under the direct supervision of a Faculty committee and is managed by the General Secretary of the College. The management of the bureau is upon a thorough business basis, and it aims to keep in close touch with the leading manufacturing and other business firms of the city which give employment to students. A careful canvass of the city for employment is made at the opening of the year, and at such intervals during the year as seem advisable. Students who desire employment may register with the Secretary of the bureau, without expense; every effort is made to secure the employment which is best adapted to individual needs.

Beloit is a manufacturing city and its citizens are interested in aiding students who desire employment. For the past three years about 50 per cent of the students at Beloit have secured employment which has enabled them to pay a part or the whole of their expenses. The canvass of the city is made early in the summer, in order that definite information regarding this matter may be given to entering students during the summer months. This information, which is available after the first of July, will be gladly furnished to prospective students on application to the College Registrar.

CAMPUS BOOK STORE.

The Campus book store, in charge of a competent manager, is located in the basement of North College. It furnishes books, stationery, athletic goods and other college requisites to students at reasonable prices.

THE BELOIT CENTER.

The Beloit Center which has been recently established, seeks to promote fellowship and develop and unify the student life of the College. In order that its purposes may be most successfully met, rooms where all students can come together have been provided in North College and fitted up in an attractive manner. The management of the Center is wholly under the direction of the students.

PHI BETA KAPPA.

In June, 1911, the Beta of Wisconsin Chapter of the United Chapters of the Phi Beta Kappa society was established at Beloit. This society is made up from those of the highest scholarship in each graduating class; out of the first fifteen per cent of the Senior class as shown by the Recorder's records not more than ten per cent may be elected to the society. A public address is given before the society during Commencement week.

LITERARY INTERESTS.

The Archæan Union, an organization of which every student is a member, has general oversight of all the literary interests of the College. These include debating, oratory, the publication of a weekly paper, and the maintenance of a reading-room. The Union is supported by a small fee, included among the incidental expenses of each student, and is governed by the student body, with the aid of a Board of Control, in which students form a majority of two-thirds.

The College holds annually three intercollegiate debates: a Freshman triangular debate with Lawrence and Ripon Colleges; a Sophomore debate with Albion College; and a triangular debate open to Juniors and Seniors, with Knox and Cornell Colleges. In addition to these, there is an annual debate for a silver cup, known as the Archæan Cup Debate, between the two literary societies named below.

There are in the College two voluntary literary societies, the Delian and Cliosophic, for men, and one, the

Aristonian Society, for women, which hold weekly meetings for practice in debate and other literary exercises. Rooms are set apart for their use in Middle College.

There is held each year a competitive contest in oratory, known as the Home Contest. The two successful competitors represent the College in the State Oratorical Contest.

The reading room of the Archæan Union is in the College Library. It is liberally supplied with newspapers and literary periodicals of all classes.

The College weekly paper, The Round Table, is now in its fifty-ninth year; it offers an excellent opportunity for training in journalistic work, which is open to all students, as the editorial positions are filled by competition.

The Beloit Alumnus is under the editorial management of alumni appointed by the Wisconsin Alumni Association. It is a bi-monthly publication containing news from the alumni and discusses questions of wide College interest.

The English Club is an organization of students for the study of topics connected with English literature. All students of the College are eligible for membership. Ten meetings are held each year. During the year 1912-1913 the club is making a study of idealistic drama; at each meeting a certain act of some play significant in the development of this drama is presented informally.

A Civic Club, a Philosophical Club, and a Chemistry Club are maintained by the students in the departments concerned.

The Shakespeare Society devotes itself to the study and representation of the plays of Shakespeare. Its membership is open, on a competitive basis, to all women students; three-fourths of the members are chosen for excellence in acting, as shown in a contest held early in the year; the other fourth are appointed for excellence in the work of the course in Shakespeare. The Society gives an out-of-door performance of one of Shakespeare's plays in the spring of each year; the play presented in 1912 was "As You Like It".

THE COLLEGE MUSEUMS.

For nearly a half century the Library and Museums embodying the material equipment of the College were assembled in a single building, Memorial Hall, but in 1893 through the munificence of Mr. Frank G. Logan of Chicago the College Museums were placed upon a separate foundation and under his constant patronage have expanded to meet the increasing demands of the newer life of the institution.

THE LOGAN MUSEUM OF ARCHAEOLOGY

The Archæological collections of the College, as newly arranged, fill all available space in Memorial Hall. The collection of stone artifacts, one of the largest in America, numbering over one hundred thousand specimens, contains material from all parts of the world and is preeminent in number and variety of ground stone axes, ground celts, chipped flints, and arrow points; there are over a thousand copper implements illustrating the use of this metal by prehistoric man. The collections of metates, Mexican and Indian pottery and basketry, Indian beadwork, weapons, and utensils are of exceptional interest and value. Ornaments, weapons, rude utensils of barbaric races in both hemispheres illustrate the modes of life of primitive peoples.

THE GEOLOGICAL MUSEUM

Several thousand specimens of rock and minerals, illustrative material for Geologic and allied study, fill two floors in Science Hall and are being rearranged for study and display. These, collected originally for the Columbian Exposition in Chicago, have been obtained from all parts of the world, notably from England, Germany, Russia, Sweden, and Japan. A collection of over a thousand fossils from the Wisconsin Geological Survey affords material for the study of local Geology. Fossil collections aggregating a thousand species, including about three hundred species of ammonites, cover the field of European Geology. A large collection of carboniferous fossils from Illinois illustrate the flora of that interesting period.

The recent accession of two large collections from the Cenozoic formations of California give unique distinction to this Museum as being the only adequate representation of these forms of recent life that have been taken from that area.

The Rivers collection of over a hundred thousand specimens of marine forms is of special value for comparison with living types. Of still greater interest is the collection of remains of extinct mammal and bird life from the asphalt beds of California. These represent the whole range of mammal and bird life coincident with the presence of the elephant and mastodon on this part of the continent. In this collection are over four thousand specimens including elephant, sloth, bison, lion, sabre-tooth tiger, wolf, and a wide range of bird forms.

These Museums are open to the public at convenient hours every day.

SCHOLARSHIPS AND BENEFICIARY FUNDS.

The College has at its disposal funds aggregating more than one hundred thousand dollars, the income from which is for the aid of those who are unable to pursue a college course without assistance. Some of these funds have been donated under particular conditions; others are not so restricted but can be drawn upon for the tuition of any person who is absolutely in need of such assistance for his college education. In awarding the income from these funds preference is given to students of high character and good scholarship, who are earning at least a portion of their own support, whose habits are economical and who have no delinquency in any subject.

Scholarships are granted for one semester, and they may be renewed upon certain conditions. Application must be made on blanks that can be secured from the Registrar and must be in the hands of the Scholarship Committee of the Faculty by June 1st for the first semester and by January 15th for the second semester of each year.

A limited number of applicants may arrange for scholarships before entering College. Application must be made to the Registrar before the opening of College, and blanks for such application can be obtained from him.

The following are the funds from which awards are made:

The Bacon Fund, $36,000, established by Edward P. Bacon, Esq., of Milwaukee, the income of which is divided into seven fellowships; four in the College, and three for graduates pursuing a course of theological study. One young man from each Freshman class is appointed to receive the benefit of a Bacon Fellowship, the selection being from among those who are especially dependent on their own exertions in securing an education, and are maintaining an excellent record in scholarship. At the close of the Senior year one is similarly chosen to receive a fellowship for a theological course.

THE EMERSON FUND, $24,832.63, bequeathed by Rev. Joseph Emerson of Andover, Massachusetts ,for the assistance of students preparing for the ministry.

THE McCONNELL FUND, $20,844.92, bequeathed by Mr. Charles D. McConnell '98, of Richmond, Illinois.

THE DODGE FUND, $9,000, bequeathed by Mr. Rufus Dodge of Beaver Dam, for aiding young women in their higher education.

THE ELISHA D. SMITH FUND, $7,000, founded by Mr. Elisha D. Smith of Menasha.

THE EDUCATION FUND, $4,000, for the assistance of students preparing for the ministry.

THE BURR FUND, $3,500, originally the Academy Endowment Fund, but transferred to the College and named in honor of A. W. Burr, for twenty-three years Principal of the Academy.

THE CHANDLER FUND, $1,000, bequeathed by the Honorable W. H. Chandler of Burke.

THE BULLOCK MEMORIAL FUND, $1,000, given by Mrs. Bullock to found the M. G. Bullock Memorial Scholarship; the income from the above sum to be given annually to a student interested in applied science.

THE UNIVERSITY OF WISCONSIN offers annually a scholarship of $225 to one of the graduates of Beloit for graduate study at the University of Wisconsin; the incumbent is required to devote a portion of his time to assistance in the work of some department with which he is familiar.

EXPENSES.

REGULAR COLLEGE DUES

Uniform for all students except those occupying the Women's Dormitories. (Which see below).

Tuition, per semester	$25.00
Incidental Fee, per semester	12.50
All incidental fees except the laboratory fees and graduation fee as noted below.	
Athletic Fee, per semester	3.50
This fee paid by all students gives admission to all home athletic events held under the management of the Beloit College Athletic Association.	
Total per semester	$41.00

SCIENCE LABORATORY FEES

Charged to cover the cost of materials used, are in addition to above regular dues, and vary according to the courses elected, as follows:

Astronomy, per semester				$1.50
Biology	I Semester	$5.00	II Semester	3.50
Botany	I Semester	5.00	II Semester	3.50
Chemistry, per semester				5.00
Experimental Psychology, per semester				2.00
Geology, per semester				1.50
Mechanical Drawing, per semester				1.50
Physics, per semester				4.00
Surveying, per semester				1.50
Zoology	I Semester	5.00	II Semester	3.50

GRADUATION FEE

A fee of $9.00, payable by all Seniors, is charged in the second semester bill. This includes the cost of the diploma for the bachelor's degree.

CHARGES FOR WOMEN OCCUPYING DORMITORIES

The regular fixed charge uniform for all women in dormitories is $327.00 for the college year; one-half ($163.50) being payable in advance at the beginning of each semester. This charge covers tuition, board, and room rent, including light and heat; also the incidental and athletic fees. The science laboratory fees and the graduation fee are extra, the laboratory fees varying according to the courses taken as per list given above.

CHAPIN HALL RENTALS

Rent for rooms in the men's dormitory, Chapin Hall, is $54.00 per occupant for the year; one-half ($27.00) is payable in advance at the beginning of each semester. This rental includes both heat and light.

All of the above dues are to be paid at the Treasurer's office in Middle College. In order to avoid confusion, and for the convenience of all concerned, *first* semester payments are to be made by *Freshmen* on *Tuesday* the *Registration Day for Freshmen.* Members of the other classes must see that their bills are paid or provided for within one week from the opening day of each semester. *Additional charges* will accrue if bills are allowed to run unprovided for beyond that time.

Absence for imperative reasons and for a period of more than *one-third of a semester* will be considered the only sufficient ground for refunding a portion of bills already paid; this rebate will be made according to certain rules made by the Board of Trustees, upon an order signed by the Dean.

PRIZES

THE LEWIS PRIZE

The Lewis Prize was founded by Governor James T.

Lewis, and is offered for excellence in special work in German.

FRESHMAN PUBLIC SPEAKING PRIZES

The class of 1901 has given the sum of $1,000, the income from which is used annually for three prizes offered to the Freshman Class for excellence in Public Speaking. The prizes are in memory of two members of the class of 1901, and are known as the Roger D. Orvis and the Mabel Rowntree Prizes. Not more than six young men selected from the Freshman Class compete for these prizes at an exercise held during Commencement week.

THE EMERSON PRIZE

The Emerson Prize of $50.00 has been awarded at the end of the Sophomore year for special excellence in the Greek of the first two years in College, and extra work in the department of Greek; it is not offered in the current year.

THE RICE PRIZE

The Rice Prize of $30.00 is offered to the Junior class for excellence and improvement in extemporaneous speaking. An elective course (Public Speaking 7-8) is offered in this subject, and the prize is awarded at a contest during Commencement week among six speakers chosen for the excellence of their record during the year.

THE MISSIONARY PRIZE

A prize of $20.00 has been established by a graduate of the College, a foreign missionary; it is offered in alternate years for the best essay on some subject connected with missions, and for the highest excellence in an examination upon Greek or Latin not read in the regular college course.

In 1912-13 the prize will be awarded for the highest excellence in an examination in Cicero's "De Amicitia".

THE LOGAN PRIZES

The F. G. Logan & Co. Prize, for the year 1912-13, will be divided into two parts. $25.00 is offered for the best archæological collection presented to the Logan Museum. In order to compete for this prize the collection must be delivered to the Curator of the Museum on or before June 1st.

A prize of $25.00 will also be given for the best essay on Mound Groups about Beloit, to be accompanied by a map of the groups described. This essay must be handed in on June 1st.

THE HAY PRIZE

The Hay Prize in American Citizenship was founded in memory of Henry Hay of the class of 1894. This prize of $40.00 is offered to any member of the Senior class for the best essay on a subject pertaining to American Citizenship. The essays are to be from 3,000 to 5,000 words in length, to be accompanied by lists of books and articles consulted, and all citations to be referred to their proper source. Three type-written copies must be submitted for transmission to the judges by June 1st. The award will be made on the basis of both form and substance.

The subjects for the Hay Prize for 1912-13 are:

Syndicalism in the United States as seen in the Lawrence strike of 1912.

The Elimination of the Middleman—to what Extent may it be Carried?

The Desirability of the Control of Industrial Monopolies by a Federal Commission.

THE FINE ARTS PRIZE

A prize of $25.00 is offered for the best essay on a subject connected with the Fine Arts. The essays are to be from 3,000 to 5,000 words in length, and are to be handed in on June 1st.

The subjects for The Fine Arts Prize Essays for 1912-13 are:

1. Moorish Architecture as illustrated in the Alhambra and the Mosque of Cordova, Spain.
2. The Evolution of Drapery as illustrated in the Fisher Collection in the College Art Hall.
3. The Life and the Art, in its various phases, of James McNeil Whistler.

THE HORACE WHITE PRIZE

A prize of $50.00 is offered by Horace White, LL.D., '53, for special excellence in Latin during the Sophomore year.

THE JACKSON J. BUSHNELL MATHEMATICAL PRIZE

A prize of $50.00 has been founded by S. Morgan Bushnell, '88, in memory of his father, Professor Jackson J. Bushnell. It is awarded annually for excellence in the mathematical work of the Freshman and Sophomore years.

THE ELIZABETH MCMOLLEN CHRISTIAN CITIZENSHIP PRIZE

By the will of Miss Agnes J. McMollen, of Oregon, Ill., a sum of money has been bequeathed to the College to be known as the "Elizabeth McMollen Memorial Fund", in memory of the sister of testatrix. The income amounting to $40.00 will be awarded annually as a prize to the student presenting the best thesis on some phase of Christian Citizenship.

The subjects for the McMollen Prize for 1912-13 are:

The Judicial Settlement of International Disputes.

The Possibilities of a Joint International Intervention in Mexico in the Interest of Mexican Self-Government.

Immigration and the Persistence of American Ideals.

Methods of Remedying the Political Evils Arising from the Indifference of the Electorate.

THE GEORGE MIDDLEBROOK PRIZES

To stimulate interest in Public Speaking six prizes are offered by Mr. George Middlebrook, of New York City, aggregating $100.00 in amount; a first, a second, and a third prize in Oratory of $25.00, $15.00 and $10.00 respectively, and three prizes of like amounts in Debating.

SHORT STORY PRIZE

A prize of $25.00 is offered by Dr. Charles F. Read of the class of 1898 for the best short story. Competition is open to students of all the College classes; three typewritten copies must be handed in not later than June 1st.

Admission.

Graduates from a high-school or academy course covering a period of four years are admitted to the Freshman class of the College on presentation of fifteen units of preparatory work, as indicated below. A unit is the equivalent of five recitations per week in a study for one school year. Half-units will be accepted only when presented in addition to whole units in the same subject, or when presented in subjects as closely allied as Botany and Zoology, or as Civics and Economics. The two units of Foriegn Language required of all students must be offered in a single language.

All applicants for admission are required to present the following eight units:

Foreign Language, 2.
English Literature, 1.
Rhetoric, 1.
History, 1.
Mathematics, 2.
Science, 1.

In addition, each applicant must present seven units, selected from the following groups:

Foreign Language, 1, 2, 3, or 4.
English Literature, 1, 2, or 3.
History, 1 or 2.
Civics and Economics, 1.
Mathematics,' 1.
Science, 1, 2, or 3.

While applicants for admission must present the requisite number of units taken from those stated above the College would prefer the following election therefrom as on the whole best preparing the student to carry on its work:

Foreign Language 4 units, English Literature 2 units, Rhetoric 1 unit, History 2 units, Mathematics 2 units, Science 2 units and optional 2 units.

REQUIREMENTS BY DEPARTMENTS.

Botany. The course presented for entrance in Botany should include the elements of plant structure and physiology, and the life history of types of plants representative of the great plant groups. The work on plant structure and physiology should comprise studies of the root, stem and leaves of the higher plants. The laboratory and field work should occupy about two-thirds of the time given to the course.

Chemistry. Students planning Chemistry as an entrance-unit in Science should have had a thorough course in General Chemistry, with laboratory work. The course should include both the non-metals and the metals. It is not expected that qualitative analysis will have been taken up.

Civics. A unit in Civics may be made up of a year's course in Civics, in Civics and Economics, or in Civics and the History of the United States.

English. The requirement in English has two branches, Rhetoric and English Literature. The study of English should be continuous throughout the four years of the high-school course; applicants for admission to college are, however, strongly urged not to present more than three units of English among the fifteen required for entrance. The importance of the study is fundamental; but it should not be made a substitute for other subjects requisite for breadth of training.

> **A. Rhetoric.** One unit of Rhetoric is required of all candidates for admission to College; but it is hoped that much more than one-fourth of the high-school course in English will be devoted to work in composition, either as a separate study or in connection with the work in literature. A student whose first month's work in Rhetoric 1 shows serious deficiency in spelling, punctuation, gram-

mar or sentence-structure will be required to take additional work to make up the deficiency, and will be excluded from matriculation until such work is satisfactorily completed.

B. English Literature. One unit of English Literature is required of all candidates for admission to College; candidates for entrance to the Freshman course (English Literature 1), must present two units. A third will be accepted in some cases, from schools of exceptional strength.

The course in High School preparation should include work of two kinds, **a** and **b.**

a. The student should be caused to study carefully the works assigned by the Conference on Uniform Entrance Requirements in English for 1913-1915. These works are Shakespeare's *Macbeth*; Milton's *Comus, L'Allegro,* and *Il Penseroso.* either Burke's *Speech on Conciliation with America* or both Washington's *Farewell Address* and Webster's *First Bunker Hill Oration*; and either Macaulay's *Life of Johnson* or Carlyle's *Essay on Burns.* Proper study of works of equivalent merit and fitness will be accepted.

b. The student should also read more rapidly a considerable selection of other pieces of English literature. These should be chosen from the list and should accord in number and kind with the grouping suggested for such work by the Conference on Uniform Entrance Requirements in English.

It is desirable that the student who presents three units for entrance to College have some knowledge of the history of English Literature; this will best be taught in connection with the work of the third and fourth years. It should not prejudice unduly the careful completion of the other work. A text-book may be used for this work, but a simple outline, given as a background and accompaniment to chronological readings from the literature, is preferable. In all of the preparation, study of works themselves, rather than study about the works, should be the chief object.

German. Two units of German are required for entrance, including preparation in Punctuation, Grammar (Joynes-Meissner or Thomas) and the following Readings: *Glueck Auf* (Mueller and Wenckebach), Storm's *Immensee,* Gerstaecker's *Germelshausen, Novelletten-Bibliothek, Vol. 1,* (Bernhardt), Schiller's *Wilhelm Tell,* or equivalents.

Applicants should be able to take part with reasonable correctness in a simple German conversation, and to put simple English sentences into German.

Greek. Two units are required of all students who expect to enter the regular Freshman course (3) in Homer.

The two required units include: Elementary Greek, in some Beginner's Book, Goodwin's or Hadley-Allen's *Greek Grammar,* four books of Xenophon's *Anabasis,* two books of Homer's *Iliad* or *Odyssey,* and forty lessons in Prose Composition.

History. Any three of the following units will be accepted in History. Texts are mentioned simply to indicate the general scope of the work, and with the understanding that the courses include collateral reading and careful attention to geography.

a. Ancient History. Texts: West's *Ancient History,* Wolfson's *Essentials in Ancient History,* Morey's Histories of *Rome* and *Greece,* Myers' *Ancient History,* revised edition, Shepherd's Atlas, Classical Atlases.

b. Mediæval and Modern, or Mediæval and English History. Texts: Bourne's *Mediaeval and Modern History,* Robinson and Beard's *Outlines of European History,* Munro's *Mediaeval History,* Coman and Kendall's *History of England for Schools,* Shepherd's Atlas.

c. English History. Texts: Andrews' *History of England,* Cheney's *Short History of England,* Larned's *History of England,* Gardiner's *School Atlas,* Shepherd's Atlas.

d. American History. Texts: Channing, McLaughlin, James & Sanford, Muzzy, and Hart's *Essentials.* A year's course of high school work must be offered.

Latin. Four units are required of all students who expect to pursue work in Freshman Latin; but any student presenting three units,—two of which must represent the work of courses a and b, and the third, the work of either course c or course d, as indicated below,—may with the consent of the instructor be admitted on trial to the Freshman work.

The four units cover the following:

a. Elementary Latin book, with Grammar and easy readings.

b. Four books of Cæsar, or two books of Cæsar and the equivalent of two additional books.

c. Six orations of Cicero, including the *Manilian Law.*

d. Six books of Virgil's *Aeneid.*

Practice in Latin Composition is required in connection with works of Cæsar and Cicero.

Mathematics. Two units are required of all candidates for admission to College, as follows:

a. Algebra, including a thorough mastery of the subjects treated in such a book as Well's *Essentials of Algebra,* through the theory of Quadratic Equations.

b. Plane Geometry. Wentworth's *New Plane Geometry* with the exercises, or an equivalent.

c. Solid Geometry, including the sphere. Wentworth's or an equivalent.

A student may present for entrance, as a third unit of Mathematics, College Algebra and Trigonometry — the equivalents of College Mathematics 1 and 2. Either of these studies will be accepted as a half-unit.

Physics. Students presenting Physics as an entrance-unit should include in their preparation both text-book and laboratory work. The text-books of Millikan and Gale, Carhart and Chute, or Hoadley are recommended.

Physical Geography. Students who present Physical Geography as one of the entrance-units should have completed a course in a standard text-book in Physical Geography, preference being given to Davis, Tarr, Gilbert and Brigham, or Salisbury. Work in Meteorology is not required, but a knowledge of the chief topographic forms and ability to interpret topographic maps are necessary, and an elementary knowledge of field methods is desirable.

Physiology. The work in Physiology presented as an entrance-unit should include the study of a standard modern text-book equivalent to Martin's *The Human Body*, preceded by general work in Botany and Zoology.

Zoology. The course presented in Zoology should consist mainly of laboratory and field work on the common animals found in the vicinity of the student's home, with careful records and drawings well arranged. A good text-book, such as Linville and Kelly's *Zoology*, should be used as a basis for the work.

ACCREDITED SCHOOLS.

Students are admitted upon certificate from the following classes of preparatory schools:

1. Schools accredited by the North Central Association of Colleges and Secondary Schools, of which Beloit College is a charter-member.

2. Schools accredited as a result of personal inspection and approved by the Faculty of Beloit College.

3 Schools in Wisconsin and neighboring states which have been accredited by Universities and Colleges of recognized standing. Students from such accredited schools are accepted upon certificate, provided that their preparatory course meets the conditions of entrance detailed above.

ADMISSION FROM ACCREDITED SCHOOLS.

Graduates of all schools accredited by Beloit College are admitted to the Freshman class without examination, when properly recommended by the principal or superintendent of schools. Graduates of distant schools of established reputation, but not accredited by the College, may be admitted upon presentation of certificates properly signed, and their approval by the Registrar.

Blank certificates for the recommendation of pupils will be furnished upon application to the Registrar of the College. Applicants for admission are expected to forward to the Registrar such certificates, properly filled out and signed by the principal or superintendent of schools, before the opening of the First Semester.

ENROLLMENT.

Applicants for admission must present satisfactory testimonials of good moral character.

All candidates for admission to the College, whether by examination or certificate, must present themselves for enrollment at 9:00 A. M. on Tuesday, Sept. 23rd, 1913. Entrance examinations will be held at 2:00 P. M. on that day in Pearsons Hall.

All students enter the College provisionally for one semester. At the close of this period those approved by the Faculty are formally matriculated by the President and come into full standing as members of the institution.

Each student must be a member of one of the four regular College classes, and must carry at least twelve hours of class-work. Students in special studies are not received.

Students who can present fourteen units in the branches of study which are required for entrance to College will be classified *conditionally* as Freshmen; such students will be allowed a deficiency of two of the eight required units in the first list above, provided that they offer enough from the second list to make up fourteen. But no student will be matriculated as a member of the College until he has completely fulfilled all the requirements for admission.

At least two of the studies elected in Freshman year of the College must be in continuation of subjects presented for entrance. The following Freshman courses require specific preparation:

German 3-4. Two units of German.
Greek 3. Two units of Greek.
Latin 3. Four units of Latin.

Any student not presenting at least two units in foreign language will be subject to a condition, which may be removed by meeting a requirement of excess hours for graduation not to exceed eight (thus increasing the minimum number of hours for graduation from 120 to 128). The Committee on Accredited Schools and Entrance will determine what courses of beginning language shall be taken; the courses thus prescribed must be taken during the Freshman year.

ADVANCED STANDING

If the student applying for entrance to College can present more than the fifteen units required, he may be granted advanced standing in the extra studies presented, either by examination or on recommendation of the head of the department in which advanced credits are sought, or as the result of inspection and acceptance by the College of the work in the secondary school in which the courses were taken; but not more than one unit, in addition to the fifteen required, will be accepted for work done in a regular four-year course of study in a secondary school. For advanced credit in science, laboratory notebooks must be presented.

Students who have taken part of the college course in other institutions of approved rank are admitted to advanced standing on the basis of satisfactory credentials of character and scholarship.

ADVANCED STANDING FROM NORMAL SCHOOLS.

1. Graduates from the present Latin and German courses of the State Normal Schools in Wisconsin, who have selected courses of college grade during the Normal course, are granted full Junior rank (60 semester-hours) at Beloit College.

2. Graduates of State Normal Schools who have not met the above requirements are given a proportional amount of credit, which must be determined in individual cases upon the submission of records to the Registrar of the College. Graduates from State Normal Schools in other states are accepted on the same basis as students from Normal Schools in Wisconsin.

3. The requirements for the B. A. and for the B. S. degree as laid down in this catalogue must be fully met for graduation.

The Course of Study.

The departments of instruction are arranged in three groups, viz:—

I. Language, Literature and Art.
II. Philosophy, the Social Sciences and History.
III. Mathematics and the Sciences.

The Bachelor's degree is conferred upon those students who have satisfactorily completed 120 semester-hours of study, including a Major and a Minor, with the required number of credits; (see Scholarship and Credits, p. 39, and Requirements for Graduation, p. 41). Students whose Major is in Group I or II receive on completing the course the degree of Bachelor of Arts; those whose Major is in Group III the degree of Bachelor of Science.

A Major consists of not less than 18 or more than 24 semester-hours made up of courses offered in one department or in allied departments as specified under the detailed statements of the several departments; at least six hours of the Major must have been completed during Freshman or Sophomore year and twelve hours must be taken in consecutive courses designated as Major Courses during Junior and Senior years. For further details regarding Major requirements see statements under the several departments.

A Minor consists of 12 semester-hours pursued during the Junior and Senior years and elected from a group other than that in which the Major is taken. The Minor must be made up of consecutive courses offered in one department or in allied departments, as indicated in the statement of courses and combinations of courses to meet the requirements for a Minor. (See page 83.)

By a semester-hour is meant one recitation, lecture, or laboratory-period per week for one semester of eighteen weeks. Not more than six semester-hours may be taken in any one semester in any one department, and not more than 36 hours in any one department will count toward graduation. Elections for Freshman, Sophomore, and Junior and Senior years must conform to the regulations given below. For the Bachelor's degree a thesis may be required in the Major subject to count as 2 or 3 semester-hours; also, for the degree of Bachelor of Science at least six hours of College German beyond course 1-2, and six hours of College French must be taken.

Where four units of foreign language have been presented for entrance each student must complete 12 hours of foreign language work of College grade; where 2 units have been presented he must complete 18 hours, and where no foreign language is presented must complete 20 hours.

In addition to the foregoing requirements, each student must take three hours of gymnasium work in each semester of Freshman and Sophomore years.

Each student, at least two weeks before the election of studies at the end of his Sophomore year, shall select his Major and notify the head of the department concerned. The head of the department in which the Major is chosen becomes the student's adviser for the Junior and Senior years, and all of the student's elections for those years are subject to his approval.

FRESHMAN YEAR.

In the Freshman year the student shall satisfactorily complete in each semester Rhetoric, 2 hours; Biblical Literature, 1 hour, and 12 or 13 hours from the elective groups given below. In the selection of these 12 or 13 hours he must take at least 3 hours from each of the groups, and he may not take more than 7 hours from any one group. He may elect either Chemistry or Biology from Group III but not both studies during Freshman year*. He may elect an additional hour in Public Speaking or Music. He is required to take three hours of a laboratory science for each of two semesters in either Freshman or Sophomore year.

GROUP I.

French 1-2	3 hours
German 1-2, 3-4	3 or 4 hours
Greek 1-2, 3-4	3 or 4 hours
Latin 1-2, 3-4	3 or 4 hours

GROUP II.

English Literature 1-2	3 hours
Classic Art & Literature 3-4	3 hours
History 1-2, 15-16	3 hours

GROUP III.

Biology 1-2	3 hours
Chemistry 1-2	3 hours
Mathematics 1-2	3 or 4 hours

SOPHOMORE YEAR.

In the Sophomore year the student shall satisfactorily complete 15 hours each semester from the studies given in the groups below. Of these 15 hours he must elect at least 3 hours per semester from each of the groups; he may elect not more than 6 hours per semester from any group but Group II; in Group II he may elect 9 hours per semester, provided that at least 6 hours are elected from the following courses: Biblical Literature 11-12, Economics 21-22, English Literature 3-4, History 3-4, 5, 6, Political Science 1-2, Psychology 2, Philosophy 1, Rhetoric 3, 5, 12. He may elect not more than four hours each semester in any one subject. Freshman studies may be elected in the Sophomore year but subject to the Sophomore requirements regarding group distribution.

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*In special cases application for permission to take both these studies in Freshman year will be considered by the Administration Committee.

GROUP I.

French 3-4	3 hours
German 7-8, 9-10	3 hours
Greek 5-6	3 hours
Italian 1-2	3 hours
Latin 5-6, 7, 9-10	3 hours
Spanish 1-2	3 hours

GROUP II.

Biblical Literature 11-12	3 hours
Economics 21-22	3 hours
English Literature 3-4	3 hours
History 3-4, 5, 6	3 hours
Music 3-4	3 hours
Political Science 1-2	3 hours
Psychology 2	3 hours
Philosophy 1	3 hours
Public Speaking 3-4, 6	3 hours
Rhetoric 3, 4, 5	3 hours

GROUP III.

Astronomy 1, 12	3 hours
Botany 1-2	3 hours
Chemistry 3-4, 7-8	3 hours
Mathematics 25-5, 16	3 hours
Physics 1-2	4 hours
Zoology 1-2	3 hours

JUNIOR AND SENIOR YEARS.

Every student is required to carry at least 15 hours each semester during the Junior and Senior years. Of these 15 hours, at least 3 hours, and not more than 6 hours, each semester must be taken in the students' Major subject. Further, in making up these 15 hours he must elect at least one course each semester in the Minor subject or subjects, making up for the two years a total of at least 12 hours in the Minor.

For definitions of Major and Minor, see page 78, for combinations of courses for a Minor see page 83. The studies of the Junior and Senior years are grouped as follows:

GROUP I.

Classic Art and Literature
English Literature
French
German
Greek
Italian
Latin
Public Speaking
Rhetoric
Spanish

GROUP II.

Archæology
Biblical Literature
Economics and Sociology
History
Library Science
Music
Pedagogy
Philosophy
Political Science
Psychology
Religious History

GROUP III.

Astronomy
Biology
Botany
Chemistry
Geology
Mathematics
Physics
Zoology

COMBINATIONS OF COURSES TO SATISFY THE MINOR REQUIREMENT.

Satisfactory completion of any one of the following combinations of courses, taken outside of the group that includes the Major, will satisfy the requirements for a Minor.

Classic Art and Literature: 1-2, 3-4.

Astronomy: 1, 2, 12, with Physics 1-2, or Geology 11-12.

Biblical Literature: Any 8 hours in Biblical Literature and Religious History, except 1-2, with two courses from the following: Pedagogy 1-6; Psychology 2.

Botany: Any 12 hours in prescribed sequence.

Chemistry: Any 12 hours except Courses 1-2.

Economics: Any 12 hours in prescribed sequence.

English: Any 12 hours except Courses 1-2.

Geology: 11-12, with either 7-8, or 1-2, or 9-10.

German: Any 12 hours except Courses 1-2, 3-4.

Greek: Any 12 hours.

History: 43,4, with 7-8 or 21-22; or 7-8 with 21-22; 21-22 with any other 6 hours in American History.

Latin: Any 12 hours except 1-2, 3-4.

Mathematics: Any 12 hours in prescribed sequence except courses 1-2; or 25-5 with Physics 1-2 or Drafting and Surveying 5-6.

Music: 3-4 with 11-12, 7-8, or 13-14.

Pedagogy: 12 hours of Pedagogy in prescribed sequence; or Psychology 2 with 9 hours of Pedagogy in prescribed sequence. Psychology 6 may be included.

Physics: Any 12 hours in prescribed sequence.

Political Science: Any 12 hours in prescribed sequence; or 1-2, with History 21-22.

Psychology and Philosophy: Psychology 2 with any 9 hours in Psychology or Philosophy. Pedagogy 1 may be included.

Public Speaking: 3-4, 7-8, 9.

Romance Languages: Any 12 hours of French except 1-2.

Zoology: Any 12 hours in prescribed sequence.

Pre-requisites as prescribed in the detailed statements of the several departments of instruction must in all cases be regarded.

Departments of Instruction.

ARCHAEOLOGY.

Mr. Buell

1-2. Archæology. *Year Course.*

1. First Semester.
2. Second Semester.

Study of the conditions of life of primitive man, his utensils, ornaments and means of defense, and evidences of his progress in art and in the conquest of nature. Full use will be made of the extensive collections in the Logan Museum and through these the student will become familiar with the arrangement and care of museums.

Sophomore Year, two hours.

ASTRONOMY.

Assistant Professor Fath

1. Elementary Descriptive Astronomy.

A simple text-book is taken as a basis and read by the class. This is amplified by lectures and illustrated by lantern-slide views and accompanied by a limited amount of observatory work. The course is non-mathematical and is primarily intended to give a culture-view of the subject, and aims to take up those aspects of the science with which every educated person should be acquainted.

First Semester, Sophomore, Junior, or Senior Year, three hours.

2. Modern Astronomy.

A continuation of course 1. The text is supplemented by readings from various sources. The lectures deal especially with the theory of light in its Astronomical applications; the physical theory of the sun; and the condition and development of the nebulæ and the fixed stars.

Second Semester, Sophomore, Junior, or Senior Year, three hours.

5-6. Introduction to Celestial Mechanics. *Year Course.*
Elementary dynamics, including central forces and the problem of two bodies. Computation of orbits.

Junior or Senior Year, three hours. Pre-requisite, Mathematics 5-6. Given when demanded by a sufficient number of students.

10. Navigation and Engineering Astronomy.
A course especially intended to give those portions of Astronomy which are of assistance to the navigator and the civil engineer. The work follows mainly Hayford's *Text Book of Geodetic Astronomy*, with chapters from Bowditch's *Navigator*, illustrated by use of instruments and reduction of observations.

Second Semester, Sophomore, Junior, or Senior Year. Pre-requisites, Astronomy 1 and Mathematics 1. Given when demanded by a sufficient number of students.

12. Practical Astronomy.
The theory and use of the transit instrument and equatorial. Determination of time and use of the micrometer. Introduction to star catalogues.

Second Semester, three hours. Pre-requisites, Astronomy 1 and Mathematics 1.

BIBLICAL LITERATURE.

Professor Deane

It is the aim of this department to put the student into possession of the methods and apparatus of Biblical and religious study and thus to open the way for a permanent interest in the prosecution of these vital themes. While some freedom in the order of election is allowed, it is desirable that courses 11-12 should be covered in the Sophomore Year.

1-2. Biblical Introduction. *Year Course.*

A general introduction to Biblical study, covering in outline the traditional story of the Hebrew race, the rise of the Hebrew sacred literature, the life of Jesus Christ, the development of the New Testament writings, and the history of the transmission of the Bible to our own day. The last part of the course is given to a study of selected examples of the different types of literature found in the Bible. Lectures and references.

Freshman Year, one hour. Given annually, and required of all students.

11-12. Old Testament History and Literature.

11. First Semester: the history of the Hebrews down to the division of the kingdom; the origin of the Hebrews and their relation to other Semitic peoples, their early religious and political institutions; character and contents of the historical books.

12. Second Semester: the history and literature of the Divided Kingdom, the Exile, and the Restoration; the rise and development of prophecy; beginnings of Jewish religious institutions and customs.

Sophomore Year, two hours. Elected by the semester. Given annually.

5-6. Wisdom Literature and Lyric Poetry.

5. First Semester.

6. Second Semester.

Hebrew Wisdom: its nature and principles as seen in Job, Proverbs and Ecclesiastes; relation to Greek thought; influence upon Christianity. Lyric poetry of the Hebrews; its rise, development and final forms, with a study of representative examples. This course is supplementary to course 11-12 and may best be taken at the same time.

Sophomore Year, one hour. Elected by the semester.

7-8. Hebrew. *Year Course.*

7. First Semester.

8. Second Semester.

The forms and syntax of the Hebrew language; readings in the Old Testament. The course includes a study of the genius of the language in its relation to the contents and permanent value of the Hebrew Scriptures. Students desiring this course should give early notice, as it will not be given every year.

First Semester, three hours; Second Semester, two hours.

10. Teachings of Jesus.

Ruling ideas in the religious and ethical teaching of Jesus, with some reference to the problems of today. The course embraces an account of existing religious conditions in the time of Jesus, and a study of the origin and mutual relations of the four Gospels.

First Semester, Junior or Senior Year, two hours. Given annually.

9. Christian Origins.

A study of the thought and life of the Apostolic Age as presented or reflected in the book of Acts and the Epistles, with special attention to the development of Christian doctrine and the beginnings of Church institutions and customs.

Second Semester, Junior or Senior Year, two hours. Given annually.

32. The History and Science of Religion.

A study of the religious experiences of various races and of the different periods of individual and race development. Special attention is given to the development of the Hebrew religion and to the relation of Christianity to the other world-religions of today.

Second Semester, Sophomore, Junior or Senior Year, three hours.

Note.—The attention of students in this department is directed to the courses in New Testament Greek (Greek 13), and in Religious Education (Pedagogy 6).

A Major in Religious Education consists of Bilical

Literature 10 and 9, Psychology 2, and Pedagogy 1 and 6. Pre-requisite, Biblical Literature 1-2, 11-12, 5-6.

A MINOR IN RELIGIOUS EDUCATION consists of 12 hours elected as follows: eight hours from Biblical Literature 11-12, 5-6, 10, 9; the remaining hours from Psychology 2, and Pedagogy 1 and 6.

BIOLOGICAL SCIENCES

PROFESSOR DENSMORE, ASSOCIATE PROFESSOR KUNKEL,
MR. HAINES, MISS HUSCHKA

Biology

PROFESSOR DENSMORE

1. Plant Biology; forms a Year Course with 2.

An introductory course illustrating the general principles of Biological Science from the standpoint of plant life. The main topics treated are: living matter and the cellular organization of plants; the biology of green plants comprising their general structure, physiology, and reproduction; the biology of fungi, yeasts, and bacteria including their relation to fermentation, disease, and decay.

First Semester, three hours. Open to all classes. Given annually. For Freshmen forms a *Year Course* with 2.

ASSOCIATE PROFESSOR KUNKEL

2. Animal Biology; forms a Year Course with 1.

This course is designed to acquaint the student by means of laboratory exercises, lectures and quizzes with the more important principles of Biology as exemplified by animals. A number of typical animals are studied carefully with special reference to structure, function, relation to environment and life history.

Second Semester, three hours. Open to all classes. Given annually.

Botany.

PROFESSOR DENSMORE, MR. HAINES, MISS HUSCHKA

Requirements—Biology 1, or an equivalent course is required as a pre-requisite for all courses in Botany. One lecture and six hours of laboratory work are required for all three-hour courses. Other courses require a proportionate amount of time.

2. Seed Plants.

A comparative study of the higher seed plants, pines, flowering plants and their allies. The form, structure, reproduction and development of familiar representatives of seed plants are studied and compared. The elements of Plant Anatomy are given to furnish a preparation for Plant Physiology.

First Semester, three hours. Pre-requisite, Biology 1. Given annually.

6. Plant Physiology.

Experiments, lectures and recitations on the physiological processes of plants. The laboratory work includes experiments in the physiological laboratory on photosynthesis, migration and storage of foods, respiration, digestion, absorption and movements of water, irritability, and response in plants.

Second Semester, three hours. Pre-requisite, course 2. Given annually.

4. Classification.

A field course designed to acquaint the student with the classification, habits and distribution of the main groups of seed plants. The common trees, shrubs and plant groups of economic importance receive special attention.

Second Semester, one hour. Given annually. Open to all students who have had Biology 1.

1. Mosses, Liverworts, and Ferns.

Field work and identification of common species of the above groups, with a limited amount of laboratory work on their morphology and reproduction. Students electing this course will be required to do field work.

Second Semester, two hours. Given in 1914-15, alternating with course 3. Pre-requisite, Biology 1.

3. Algæ and Fungi.

Field studies and laboratory work, supplementary to the course in Plant Biology, on the main groups of Algæ and Fungi. Fungous diseases of trees and of the cultivated plants will be emphasized in this course.

Second Semester, three hours. Offered in 1913-14. Given in alternate years and open to members of the three upper classes who have completed Biology 1.

5. Anatomy.

The anatomy and histology of seed plants with methods of preparing plant tissues for study, including fixing, mounting and staining. Especial attention is given to the structure of wood and to the growth and anatomy of forest trees.

First Semester, three hours. Pre-requisite, course 2.

7. Embryology and Cytology.

General studies in Plant Cytology and Embryology with lectures and readings on cell theories of Reproduction, Heredity and Hybridization applied to plants. In addition each student will be assigned a special problem for independent work upon which reports or a written thesis will be required. Special methods of killing, staining and mounting material for cytological and embryological studies will be given in the course.

Second Semester, three or four hours. Required of all Major students in Botany. Pre-requisites, courses 2 and 5.

8. Thesis Course.

Special studies with collateral readings and a thesis are offered to Seniors who have taken Major work in Botany. The topics for study are to be arranged with the instructor. Courses 5 and 7 are usually necessary for this course.

First or Second Semester, Senior Year, three hours.

A Major in Botany consists of courses 2, 6, 4, 5, 7 and 1 or 3 in addition to Biology 1. Biology 2 may count for three hours. For consecutive courses consult the instructor.

General Courses—Courses 2, 6, and 4 together with the course in Plant Biology are designed to give students a general knowledge of plant life including the form, structure, development and physiology of plants. These courses should be elected by students who desire a brief course in Botany, for culture or for teaching Botany in high schools.

Special Courses—Recommended as a preparation for special lines of work.

Forestry: Courses 2, 6, 4, 5 and 3.
Agriculture and Horticulture: Courses 2, 6, 4, 3 and 7.
Sanitary Science: Courses 2, 6, and 3.
Teaching: Courses 2, 6, 4, 5, 1, and 3.

Zoology.

Associate Professor Kunkel, Mr. Haines

1. Physiology.

A course of recitations based upon Huxley's *Lessons in Elementary Physiology* and illustrated by demonstrations. The general functions of the body are discussed such as, movement, sensation, digestion, assimilation, secretion, respiration, and circulation. This course is especially recommended for prospective teachers of zoology and physiology and all desiring a general knowledge of the human body.

First Semester, three hours. Pre-requisite, Biology 2.

2-3. General Zoology.

A laboratory course in which representatives of the various classes of vertebrates and phyla of invertebrates are dissected, in order to give the student a first-hand knowledge of the structure of typical forms. The laboratory work is supplemented by lectures in which the knowledge gained in the laboratory is systematized and correlated, and the significance of the structures is pointed out. Rather more than half the time is devoted to the vertebrates because of their greater importance to prospective medical students.

Sophomore, Junior or Senior Year, three hours. This course may be dropped after the first semester, but no student will be admitted to the course for the Second Semester alone. Pre-requisite, Biology 2.

4. Histology and Histological Technique.

A laboratory course supplemented by lectures and quizzes. The principal varieties of cells occurring in the vertebrate body are studied and practice in the methods of preparation of organs for microscopical study is given. Emphasis is laid upon the cell rather than upon the organ in order to pave the way for the more extensive study of histology in the medical school.

First Semester, three hours. Pre-requisites, Biology 2 and Zoology 2-3.

5. Embryology.

A laboratory course supplemented by lectures and quizzes The development of the vertebrates from the germ cells to the mature condition will be studied with special reference to the amphibian and the chick. The history of the germ cells, fertilization, cleavage of the egg and formation of the principal organs will be discussed together with theories of inheritance and development.

Second Semester, three hours. Pre-requisites, Biology 2, Zoology 2-3, 4. Forms a year course with Zoology 4.

6. Animal Ecology.

A laboratory and field course supplemented by lectures, readings and quizzes. In this course attention is directed to the adaptations of animals to their environment. Opportunity is given in this course to carry on original investigations of a simple nature. This course is recommended especially for prospective teachers.

Second Semester, three hours. Pre-requisites, Biology 1, 2, Zoology 2-3 will be found helpful.

A MAJOR IN ZOOLOGY consists of 21 hours which must include courses 2-3, 4 and 5 in addition to Biology 2. Biology 1 may count for three hours.

GENERAL COURSES. Students desiring simply a general knowledge of Zoology are advised to take Biology 2, and Zoology 1 and 6.

Prospective teachers will find Biology 2, Zoology 1, 2-3 and 6, especially useful.

Prospective medical students will find Biology 2, Zoology 1, 2-3, 4 and 5, especially useful.

CHEMISTRY

PROFESSOR E. G. SMITH, ASSISTANT PROFESSOR McLEOD,
MR. HINCKLEY

1-2. General Chemistry. *Year Course.*

1. First Semester.
2. Second Semester.

During the first semester, lectures, recitations, and laboratory work with the non-metals. For the second semester, lectures on the metals, with recitations and laboratory work. Three recitations, or laboratory periods, and one lecture weekly.

The class is divided into three sections. One section is known as Advanced General Chemistry to which only those students who have had at least one semester of Elementary Chemistry are admitted. The laboratory work supplements work already done and is largely of a quantitative character.

Freshman Year, three hours. Given annually.

PROFESSOR SMITH

1-2. Advanced General Chemistry. *Year Course.* (See above under General Chemistry.)

5-6. Quantitative Analysis. *Year Course.*

5. First Semester.
6. Second Semester.

The course will include the simpler quantitative determinations and the quantitative analysis of a series of alloys and natural minerals, concluding with analyses of the silicates. Both gravimetric and volumetric methods will be studied.

Junior or Senior Year, three hours. Pre-requisites, courses 1-2 and 3-4. Given annually.

7-8. Organic Chemistry. *Year Course.*

7. First Semester.
8. Second Semester.

A course of lectures on Organic Chemistry. The course may be taken with or without laboratory work on the preparation of a limited number of compounds supplementing the lectures, and illustrating the more common laboratory processes.

Sophomore, Junior, or Senior Year, two or three hours. Pre-requisite, course 1-2. Given annually. The lecture course counts for two hours; when laboratory work is included, three hours. Both courses are required of students electing for pre-medical work.

16. Sanitary Chemistry.

A course in Sanitary Chemistry, in which the study of natural waters, drainage, air, foods, etc., is taken up. The course is given by lectures, laboratory work, and reports on special topics.

Second Semester, Junior or Senior Year, two hours. Pre-requisites, courses 1-2, 3-4 and 7-8. Given in 1914 15, and in alternate years thereafter.

20. Teachers' Course.

A study of methods of teaching Chemistry in the secondary schools. Lectures and discussions.

Second Semester, Junior or Senior Year, one hour. Given in 1912-13. (See under Pedagogy 10).

30. Thesis.

A special study of some topic, requiring both a reading of its literature and laboratory investigation.

Second Semester, Senior Year, two or three hours. (See below under Notes for Major Students.)

ASSISTANT PROFESSOR MCLEOD

3-4. Qualitative Analysis. *Year Course.*

3. First Semester.
4. Second Semester.

A course in qualitative chemical analysis, beginning with the simple re-actions of the metals. The latter part of the course will be devoted to the study of the analysis of natural compounds, commercial products, and inorganic preparations. During the second semester a brief course in determinative mineralogy is introduced, with special reference to the natural occurrence of the elements and study of the methods of dry analysis.

Sophomore Year, three hours. Pre-requisite, course 1-2. Given annually.

9-10. Physical Chemistry.

In this course will be taken up some of the modern theories of Chemistry, especially those dealing with Gases, Thermochemistry, Solutions, the Phase Rule, Ionization, etc. The course will be based upon text-book work, with readings, laboratory work, and discussions.

First and Second Semester, Junior or Senior Year, three hours. Pre-requisites, course 1-2, and Physics 1-2. It is expected that the student shall have had also courses 3-4 and 5-6, and Mathematics through Calculus.

18. Electro Chemistry.

A course in Electro-Chemistry in which will be discussed the modern theories relating to the subject and their application to the chemical industries and to electro-analysis. Lectures, readings, and laboratory work.

Second Semester, Junior or Senior Year, three hours. Pre-requisites, as under courses 9-10, including also those courses. Given in 1913-14.

12. Applied Chemistry.

An elementary discussion of the application of Chemistry to industry and the arts. The course will be given by lectures and reports on chemical manufactures on the large scale, such as the acid and alkali industries, dyeing and the manufacture of cements, leather, paints, etc.

Second Semester, Junior or Senior Year, two hours. Pre-requisite, course 1-2. Given in 1912-13.

MR. HINCKLEY

40. Stoichiometry.

A course in Chemical calculations. designed to render the student familiar with the ordinary problems of General Chemistry. Especially valuable for those who expect to teach Chemistry, or to enter some other branch of science.

One Hour. Open to any student who has had Chemistry 1. Required of all students whose Major is in Chemistry.

NOTES. The courses in this department are numbered consecutively, and it is expected that elections will be made following the numbers of the courses so far as possible.

FOR ADVANCED STUDENTS. Students entering from approved secondary schools, and presenting more than the number of units required for admission to college, and having the full equivalent of courses 1-2, may present their records together with their laboratory note-books, and after passing a satisfactory examination they may be accepted for advanced standing for a certain number of hours but without honor credits.

A MAJOR IN CHEMISTRY consists of course 1-2, to be elected during Freshman Year, 3-4 during Sophomore Year, and 12 hours during Junior and Senior years, selected from courses 5, 6, 7, 8, 9, 10, 18.

Where Chemistry is taken as a Major, students are urged to elect Mathematics through Calculus. In addition to the 24 hours thus prescribed for a Major, any student taking honors in Chemistry will be required to elect 2 or 3 hours for a thesis during the second semester of Senior Year; others may elect such thesis work.

CLASSIC ART AND LITERATURE.

PROFESSOR WRIGHT

1-2. Classic Art.

1. First Semester: Greek and Roman Art.
2. Second Semester: Renaissance Art.

Courses introductory to the elementary principles underlying all art, as illustrated in the architecture and sculpture of Greece and Rome and in the arts of the Renaissance. The students' work is based upon a laboratory study of the University Prints issued by the Bureau of University Travel. Lectures are illustrated by lantern slides and by the casts of the Fisher collection in the Art Hall.

Junior or Senior Year, three hours; elected by the semester. Given annually.

3-4. Greek Literature.

3. First Semester: Iliad, Odyssey, Lyric Poetry.
4. Second Semester: Greek Drama, Greek Prose.

This course is intended to be fundamental to the understanding of the more modern literatures, so far as they are based upon the form and content of the ancient Classics. The ancient works are studied in the best translations and compared with related forms in other literatures. Lectures are given on important phases of Greek life and Greek expression.

Three hours, Freshman year; elected by the semester.

DRAFTING AND SURVEYING

PROFESSOR HAMILTON, ASSISTANT PROFESSOR FATH

ASSISTANT PROFESSOR FATH

1-2. Mechanical Drawing. *Year Course.*

1. First Semester.
2. Second Semester.

A course in drafting preparatory to machine-designing, architectural drawing, or civil engineering. The course covers simple lettering and dimensioning, isometric, cabinet, and orthographic projection of simple forms, together with elementary shades and shadows, tracing and blue-printing.

Three hours. Pre-requisite, Mathematics 1-2.

26. Drawing and Lettering.

A course which aims to give those parts of drafting which are most useful for the surveyor and civil engineer. Especial attention is paid to plain lettering preparatory to field note work of the surveyor. The simple elements of geometrical drawing, cabinet and orthographic projections are taken up, together with a limited amount of tracing and blue-printing. This course is not recommended for those who contemplate engineering-school work after leaving College; to such students the longer course 1-2, is commended.

First Semester, Junior or Senior Year, three hours. Pre-requisite, Mathematics 1-2.

PROFESSOR HAMILTON

5-6. Surveying. *Year Course.*

5. First Semester.
6. Second Semester.

The general principles of land and city surveying and the elements of topographical surveying are given, abundantly illustrated by field work and reduction of data.

Junior or Senior Year, two hours. Pre-requisites, Mathematics 1-2, and Drafting and Surveying 1-2; or may be taken in conjunction with course 1-2. Given in 1912-13, and in alternate years.

16. Surveying.

The general principles of land and city surveying with illustration by field work and reduction of data.

First Semester, Junior or Senior Year, three hours. Pre-requisite, course 1-2. Given in 1912-13 and when five or more students demand it.

ECONOMICS AND SOCIOLOGY.

PROFESSOR CHAPIN

21-22. Economics.

The principles of Economics, with some training in the application of these principles in the interpretation of the facts of present-day industry and commerce. Pre-requisite for all other courses in this department. Ely's *Outlines*, revised edition, is used as a text, with assigned readings in other authors. Recitations, lectures, and exercises in the discussion of illustrative problems.

First and Second Semesters, Sophomore, Junior, or Senior Year, three hours. Given annually. A year-course, but may be dropped at the end of the first semester.

3. Finance.

Public revenues and expenditures, governmental industries, taxation, the budget, public debts, considered with especial reference to conditions prevailing in the finances of the local, state, and national governments in the United States. Plehn's *Public Finance* is used as a text, together with lectures and topical readings.

First Semester, Junior or Senior Year, three hours. Pre-requisite, course 21-22. Given in 1912-13, and alternate years.

5. Money and Banking.

The functions of money, coinage, bi-metallism, credit, banking, credit currency, bank notes. Recitations in Scott's *Money and Banking*, lectures, readings in various standard texts and official reports.

First Semester, Junior or Senior Year, three hours. Pre-requisite, course 21-22. Given in 1913-14, and alternate years.

6. Railroad Transportation.

This course aims to present the economic rather than the technical aspects of transportation, and includes a discussion of the organization, functions, and administration of the railroads of the United States, and their relations to society and government.

Second Semester, Junior or Senior Year, three hours. Pre-requisite, course 21-22. Given in 1913-14, and alternate years.

8. Industrial Corporations.

The economic advantages of corporate organization; concentration of control through agreements, trusts, and consolidation of corporations; the economic effects of monopolistic combinations; proposed methods of legal regulation.

Second Semester, Junior or Senior Year, three hours. Pre-requisite, course 21-22. Given in 1912-13, and alternate years.

9. Sociology.

A study of modern local social groups is made the starting-point for the discussion of the historic forms of social organization and the interaction of the social forces seen in social evolution. Lectures, with assigned readings and topical reports.

First Semester, Junior or Senior Year, three hours. Pre-requisite, course 21-22. Given annually.

10. Social Problems.

A discussion of certain social problems of modern life, with reference on the one hand to biologic and economic causes and on the other hand to policies and agencies directed toward the improvement of existing conditions. Lectures, assigned readings, and topical reports.

Second Semester, Junior or Senior Year, three hours. Pre-requisite, course 21-22. Given annually.

11. Socialism.

A study of the works of representative socialistic writers of the nineteenth century, their criticisms of the industrial organization of society, their constructive proposals, their practical experiments.

First Semester, Senior Year, three hours. Pre-requisite, course 21-22. Given in 1912-13, and alternate years.

13. Modern Philanthropy.

The causes of poverty, the history of methods employed in dealing with poverty, disease, and crime, the principles of organized charity, the rise of preventive philanthropy, and the most important of the agencies now engaged in the work of social amelioration. Emphasis is laid upon preventive rather than merely remedial efforts. Lectures, readings, and topical reports.

First Semester, Senior Year, two hours. Pre-requisite, course 21-22. Given in 1913-14, and alternate years.

A Major in Economics consists of 15 hours of Junior and Senior Courses, preceded by course 21-22, which should be taken in the Sophomore year by those expecting to take a Major in this department.

ENGLISH LITERATURE

Professor Wells, Assistant Professor Clancy,
Miss Adams, Mr. Merriam

Pre-requisite for Advanced Courses in English Literature is satisfactory completion of course 1-2. Students who as Freshmen in 1911-12 completed the course Classic Art and Literature 3-4, will be regarded as having satisfied this requirement.

For courses in Rhetoric and Composition, see Rhetoric.

ASSISTANT PROFESSOR CLANCY, MISS ADAMS, MR. MERRIAM.

1-2. Introduction to the Study of Literature.

Year Course.

This is not a survey course or a study of history of English literature. The work of the year consists in careful study of selected notable pieces of English literature with the following ends in view: (1) to arouse to a realization of the vital worth and interest of literature; (2) to familiarize with the matter and the form of certain representative and influential works; (3) to assist to a notion of the chief characteristics of greater classes of literature. The course will proceed as follows: Drama, Narrative Poetry, Lyrical Poetry, Modern Prose.

Freshman Year, three hours. Given annually. Assistant Professor Clancy and Miss Adams, each one division; Mr. Merriam, two divisions. See head-note.

PROFESSOR WELLS

3-4. Shakespeare.

A close study of about twelve of the plays of Shakespeare, and reading of several additional plays. Open class discussion to bring out dramatic and dramaturgic qualities, with special stress on ethical and universal elements of the works.

First and Second Semester, three hours. Primarily for Sophomores. Given annually.

5. Old English.

The beginnings of the English language and literature. The grammar of Old English. Readings of selections of Old English prose and verse in the original, and of extensive selections in translation. Lectures in Old English literature and on the history of the language. Knowledge of German and of Latin is necessary for the pursuing of this course.

First Semester, Junior or Senior Year, three hours. Given in 1913-14, and alternate years.

6. Middle English, particularly Chaucer.

A course in Middle English literature, with much attention to the development of the language. A knowledge of Old English is not necessary for the course. Reading of specimens of Middle English Literature, portions of Langland and Gower, and all of *The Pearl*. The course centres about Chaucer and aims to give familiarity with all of his principal work and with its spirit as representative of the man and the period.

Second Semester, Junior or Senior Year, three hours. Given in 1913-14, and alternate years.

9. English Poetry, 1798-1832.

Study of poems of Scott, Byron, Shelley, Keats, Coleridge, and Wordsworth. The course will be devoted chiefly to close study of the poetry of Wordsworth in an attempt to appreciate the attitude of the poet, in theory and in practice, toward nature and toward man. Lectures, discussions, reports.

First Semester, Junior or Senior Year, three hours. Given in 1912-13, and alternate years.

20. Victorian Prose.

Careful study of the thought of Carlyle, Ruskin, and Arnold, or of other representative writers, as manifested in selected works, with special attention to its bearing on their own day and on the present time. Lectures, discussions, reports.

Second Semester, Junior or Senior Year, three hours. Given in 1912-13, and alternate years.

29. Victorian Poetry, chiefly Tennyson.

Study of the development of the ideal of Tennyson in theory and in practice, and of the growth of his power of expression. Especial consideration is given to his treatment of problems of modern life and thought. Two other

Victorian poets will be considered. Lectures, discussions, reports.

First Semester, Junior or Senior Year, three hours. Given in 1913-14, and alternate years.

19. Victorian Poetry, chiefly Robert Browning.

Close study of selected poems by Browning to afford an introduction to the characteristics of the poet's composition, and to acquaint with his conception of art and with his philosophy of life. Two other Victorian poets will be studied. Lectures, discussions, reports.

Second Semester, Junior or Senior Year, three hours. Given in 1913-14, and alternate years.

30. Special Topics.

Detailed study of selected topics or writings, upon which will be held class discussion and consultation with the instructor. Each student will prepare an extended paper on some phase of his own study. Introduction will be given to the principal sources of information as to English language and literature.

Second Semester, Senior Year, three hours. Required of all students majoring in English; open to others only by special permission. Given annually.

31. Elegiac Poetry.

Study of the Elegiac or In Memoriam poems of Theocritus, Bion, Moschus, Spenser, Milton, Shelley, Arnold, Emerson and others, culminating in a detailed study of Tennyson's *In Memoriam*.

Second Semester, Junior or Senior Year, three hours. Given in 1912-13, and alternate years.

33. Forms of Literature.

Study of the characteristics of particular types of literature as exhibited in chosen representative specimens. Later an attempt will be made to formulate general principles for the study of literature. The aim of the course is to supplement on more general bases the knowledge obtained in more restricted courses.

First Semester, Junior or Senior Year, three hours. Given in 1914-15, and alternate years.

MISS ADAMS

32. English Literature in the Eighteenth Century.

A study of the characteristics of English literature from the Restoration to the death of Burns. After careful consideration of the qualities of the so-called Classical School, the development of the literature (exclusive of the novel) with special emphasis on the manifestation of the romantic spirit, will be studied.

Second Semester, Junior or Senior Year, three hours. Given in 1914-15, and alternate years.

26. The English Novel.

A study of the development of the novel, from Addison's *De Coverley Papers* to the novels of Meredith. The structure and elements of the novel. Reading and study of the representative novels of the period. Lectures, reports, and class criticisms.

First Semester, Junior or Senior Year, three hours. Given in 1913-14, and alternate years.

MR. MERRIAM, MISS ADAMS

24-25. American Literature.

Study of work of greater representative nineteenth century writers — Irving, Cooper, Bryant, Emerson, Hawthorne, Whittier, Longfellow, Poe, Holmes, Thoreau, Lowell.

First and Second Semesters, Junior or Senior Year. Given in 1913-14, and alternate years. First Semester, Mr. Merriam; Second Semester, Miss Adams.

MR. MERRIAM

23-28. English Literature, 1579-1674.

A study of the literature (exclusive of the drama) from the *Shepherd's Calendar* to the death of Milton. Study of the spirit of the period as manifested in the various forms of literature of the time. In the first semester the work will center about Spenser; in the second semester, about Milton. Discussions and reports.

First and Second Semesters, Junior or Senior Year, three hours. Given in 1912-13, and alternate years.

21. Teachers' Course.

The course aims to crystallize the student's thoughts on literary topics, to discover something of the nature of specific problems of the teaching of English in secondary schools, to suggest methods of teaching literature and composition in the schools. Practice in presentation of subjects and in theme-reading.

Second Semester, Senior Year, two hours. Given annually.

A MAJOR IN ENGLISH LITERATURE consists of courses 1-2, 3-4, 5 or 6, 33, 30, and one additional three-hour course. Those who expect to teach English should elect the Teachers' Course, 21. The student should take at least a semester of work in advanced Composition, i. e., Rhetoric 3 or 4. He is advised to elect at least twelve hours of History, probably courses 1-2, 7-8; Classic Art and Literature 3-4 and 1-2; Philosophy 5 and 6. A considerable knowledge of Latin is practically essential for effective work in English Literature.

RECOMMENDATION FOR TEACHING ENGLISH in secondary schools will be given only to students who have completed work equivalent to that necessary to satisfy a Major in English Literature. This applies first to the Class of 1915.

GEOLOGY

PROFESSOR COLLIE, MR. BUELL

PROFESSOR COLLIE

11-12. General Geology.

11. First Semester.

12. Second Semester.

A beginning course in Geology, in which the study of geologic processes and their results is especially emphasized. Lectures, laboratory work and field excursions.

Junior or Senior Year, three hours. Pre-requisite, Chemistry 1-2.

1-2. Physiography.

1. First Semester.

The course is designed to give the student a knowledge of the surface features of the earth, dealing particularly with the development of geographic forms and the processes by which they have been made. Lectures, field and laboratory work.

2. Second Semester.

This is a course in applied physiography dealing with the influence of physical environment upon man, upon his history, commerce and culture. Lectures and reference books.

Junior or Senior Year, three hours.

7-8. Evolution.

7. First Semester.

This course includes a discussion of the various theories of evolution and the evidences of evolution among animals.

8. Second Semester.

This course considers the evolution of man from the standpoint of his physical, mental and religious nature. It deals also with the evolution of early art, manufacturing and other forms of culture.

Senior Year, three hours. Pre-requisite, Biology 1-2.

MR. BUELL

9-10. Palæontology.

9. First Semester. General outlines of the whole subject and a detailed study of Palæozoic life. The nature and preservation of fossils will be considered and the specific determination of characteristic Palæozoic fossils

in the laboratory will constitute the major part of the course.

10. Second Semester. Mesozoic and Cenozoic life, a continuation of the study of fossil forms through later eras. The work will include a study of the characteristic groups of more recent time and their related physical conditions. The end sought in this course is familiarity with the life of Geologic periods and such specific knowledge of type specimens as to identify them and by this means their Geologic horizons. Lectures, field and laboratory work.

Senior Year, three hours. Pre-requisites, Biology 1-2, Geology 11-12.

Those desiring to major in Geology should consult the head of the department.

Note.—All courses may be elected by the semester, but the second semester courses are open only to those who have completed the work of the first semester.

GERMAN

Professor Dubee, Mr. Menger, Mr. Horst

MR. MENGER, MR. HORST

1-2. Elementary German. *Year Course.*

1. First Semester.
2. Second Semester.

A course for students who enter College without German. Essentials of German grammar, pronunciation, composition, and reading of easy prose. The books used in 1912-1913 are Prokosch, *Introduction to German,* some of the shorter prose works of Storm and of Heyse, and Schiller's *Wilhelm Tell.*

Freshman Year, four hours.

3-4. Intermediate German. *Year Course.*

3. First Semester.
4. Second Semester.

Reading of Schiller's *Jungfrau von Orleans,* Lessing's

Minna von Barnhelm, and modern prose. German composition, and constant review of German grammar.

Freshman or Sophomore Year, three hours. Pre-requisite, course 1-2, or two years of high-school German. Students who enter College with more than two years of German should consult the head of this department, before electing their German studies.

PROFESSOR DUBEE

7-8. German Conversation.

A course in advanced German conversation. Discussions of modern German life and customs, and political, economic and educational conditions. Conducted entirely in German.

Junior or Senior Year, three hours. Pre-requisite, a grade of B+ or better in course 9-10. Not given in 1913-14.

9-10. Advanced German Syntax and Composition.

Year Course.

9. First Semester.
10. Second Semester.

Writing of German themes, study of Jagemann's *German Syntax*, and discussion of linguistic difficulties.

Sophomore Year, three hours. Pre-requisite, German 3-4. Required of students who expect to teach German in high-schools. Not given in 1913-14.

MR. MENGER.

11. The Nibelungenlied, Gudrun, and the Court Epics.

Reading of modern German translations of the Nibelungenlied, Gudrun, and selections from the German court epics. History of German literature to Lessing's time. Readings and reports.

First Semester, Sophomore Year, three hours. Pre-requisite, course 3-4.

12. Lessing, Herder, and the Storm and Stress Movement.

Reading of Lessing's *Nathan der Weise* (or, *Emilia Gallotti*), and one representative work of the Storm and Stress Period in German literature. Outside readings and reports. History of German literature of this period.

Second Semester, Sophomore Year, three hours.

PROFESSOR DUBEE

13. Heine's Relation to the Romantic Movement.

Reading of the prose writings of Heine, and a study of his lyrics. His relation to the German romanticists and to Byron. Outside readings and reports.

First Semester, Sophomore Year, three hours. Prerequisite, course 3-4. Not given in 1913-14.

14. The German Drama in the Second Half of the Nineteenth Century.

Reading of at least two important dramas, selected from the works of Freytag, Ludwig, Hebbel, Sudermann, or Hauptmann. Outside reading of at least two other dramas from this same group and reports.

Second Semester, Sophomore Year, three hours. Prerequisite, course 3-4. Given in 1913-14, and in alternate years.

16. History of German Literature and Culture (in outline.)

A rapid review of the cultural forces in Germany, from the earliest beginnings to our own times. Lectures, outside readings, and reports. No knowledge of German is required for this course.

Second Semester, Junior or Senior Year, two hours. Given in 1913-14, and in alternate years.

17. Schiller and His Time.

A study of Schiller's Dramatic and Lyric works. Lectures on Schiller's artistic development, his influence on the nineteenth century, and the cultural conditions of his time. Reports on outside readings.

First Semester, Junior Year, three hours. Pre-requisites, course 3-4, and six semester-hours of more advanced German. Not to be given in 1913-14.

18. Schiller's *Wallenstein.*

A continuation of course 17. Critical reading of Schiller's greatest drama. Lectures on Schiller's æsthetic and philosophical writings.

Second Semester, Junior Year, three hours. Pre-requisites, as under course 17. Given in 1913-14, and in alternate years.

20. Teachers' Course, in German.

Methods of teaching German in the secondary schools. Criticism of text-books. Class-visitation and practice-teaching.

Second Semester, Senior Year, one hour. Required of students who expect to teach German. (See under Pedagogy 10).

21. Masterpieces of the Nineteenth Century.

Rapid reading of the best modern German prose. Lectures on the political, economic, social, and literary conditions of the first half of the nineteenth century, with special emphasis on the causes of the revolution of 1848. Outside readings and reports.

First Semester, Junior Year, three hours. Not to be given in 1913-14.

22. Masterpieces of the Nineteenth Century.

Rapid reading of the best dramatic works, belonging to the second half of the nineteenth century. Outside readings and reports. Lectures as in course 21.

Second Semester, Junior Year, three hours. Not to be given in 1913-14.

23. Goethe's Life and Works.

Careful reading and analysis of Goethe's Lyrics. His philosophy of life, his attitude toward Nature, and his æsthetic principles. Outside reading of Bielschowsky's *Goethe-Biography*, and reports.

First Semester, Senior Year, three hours. Not to be given in 1913-14.

24. Goethe's *Faust.*

This course should be taken as a continuation of course 23, which is intended as a preparation for Goethe's *Faust.*

Second Semester, Senior Year, three hours.

A Major in German must include 18 semester-hours, to be selected from courses 11, 12, 13, 14, 16, 17, 18, 21, 22, 23, and 24.

A German Teaching Major must include, in addition to the above requirement, courses 9 and 10.

GREEK

Professor Wright

1-2. Elementary Greek. Greek Grammar; Xenophon and Homer. *Year Course.*

1. First Semester.
2. Second Semester.

This course, introductory to course 3, is offered to students entering College with no knowledge of Greek.

Freshman or Sophomore Year, four hours.

3. Homer.

Two or three books of the *Odyssey* are read slowly, with study of details in language and style; large portions of the epic are then read much more rapidly, with a view to literary appreciation and to a study of the heroic life of Homeric Greece.

First Semester, Freshman Year, three hours. Pre-requisite, course 1-2, or its equivalent in high-school Greek.

4. Herodotus, Xenophon, and Plato.

Passages from Herodotus are made the basis of a review of the history of Greece during the Persian Wars and the century preceding. The life, character, and times of Socrates are studied from portions of the following texts: Xenophon's *Memorabilia* and *Symposium*, Plato's *Apology* and *Crito*, *The Clouds* of Aristophanes.

Second Semester, Freshman Year, three hours.

5-6. Euripides, Sophocles, and the Lyric Poets.

5. First Semester.
6. Second Semester.

In these courses the history, form and spirit of the Greek drama are studied. Three or four tragedies are translated, one of which is done into English verse by the members of the class. This version is often given in public as a dramatic rendering. During the latter part of the year selections from Greek Lyric Poetry are translated by the class and compared in style and content with the songs of other peoples.

Sophomore Year, three hours.

7-8-9-10. Greek Orators, Philosophers, and Comedians.

To such students as are prepared for advanced Greek readings these semester courses are offered. The works studied are selected according to the requirements and tastes of the students electing.

Junior and Senior Years, two hours.

13. New Testament Greek.

A study of the characteristics and style of the Greek of the New Testament. This course is intended specially for students of Biblical Literature, and is counted toward a Major in that subject.

First Semester, Junior or Senior Year, one hour.

HISTORY

PROFESSORS RICHARDSON, WAY, WRIGHT, CALLAND

PROFESSOR RICHARDSON

1-2. Mediæval History. *Year Course.*

The general history of Continental Europe, from the fall of the Roman Empire of the West to the sixteenth century. In this course are included the bases for subsequent development existing at the fall of the Empire; mediæval relations of church and state; feudalism; crusades; the beginnings of modern nationalities.

Freshman Year, three hours. Given annually.

5. French Revolution and Napoleonic Wars.

Particular emphasis will be laid in this course on the intellectual and social background of the Revolution and on the influence of the Revolution upon Europe at large.

First Semester, Sophomore Year, three hours. Given in 1913-14.

6. Europe since 1815.

This course embraces the Metternichian reaction to the Revolution and the continued influence of the Revolution as seen in the successive changes of government in France, and the establishment of constitutional governments in central and southern Europe. Particular attention will be paid to the founding of Italian and German unity and to the Near Eastern question.

Second Semester, Sophomore Year, three hours. Given in 1913-14.

43. Mediæval Culture.

Studies in selected topics relating to mediæval thought and politics. In 1912-13 Augustine's *City of God,* the *German Theology,* and Dante's *De Monarchia* were read and discussed.

First Semester, Sophomore or Junior Year, three hours. Given in 1912-13, and in 1914-15.

4. History of Europe from 1500 to 1789.

A general course covering the periods of the Protestant and Counter Reformations, the Religious Wars, and the Dynastic Rivalries of Europe up to the French Revolution. Considerable attention will be paid to colonial expansion.

Second Semester, Sophomore Year, three hours. Given in 1912-13, and in 1914-15.

7-8. English History. *Year Course.*

7. First Semester.
8. Second Semester.

Lectures, written exercises, and reading on the political and constitutional history of England, from the Norman Conquest to recent times. The outlines of the present system of English government are first studied as described for example in Dicey's *Introduction to the Study of the Law of the Constitution.* An attempt is then made to trace the development of this system through its several stages.

Junior or Senior Year, three hours. Given annually.

PROFESSOR WAY

21-22. American Political History. *Year Course.*

21. First Semester. 1783-1829.
22. Second Semester. 1829-1876.

A general course in the constitutional and political history of the United States from the Confederacy to the close of the Reconstruction Period. Lectures, text-book, recitations, collateral reading and topics prepared from original sources.

Junior or Senior Year, three hours. Given annually.

28. Recent History of the United States, 1876-1910.

A study of the recent social and economic organization of the United States with special reference to the trend towards nationalization, commercial and colonial expansion. Lectures, discussions, conferences and collateral readings.

Second Semester, Junior or Senior Year, three hours. Not given in 1913-14.

24. History of the West to 1840.

A study of the conditions of westward migration and the economic, political and social aspects of the occupation of the United States. A practical interpretation of American expansion which alone gives a proper understanding of the American nation of today. Lectures, collateral readings and topics.

First Semester, Junior or Senior Year, three hours. Given in 1913-14, and in alternate years.

30. History of the Trans-Mississippi West, 1840-1910.

A study of the Trans-Mississippi West with reference to its occupation, development, political ideas, and relations with the remaining part of the United States and the world. Lectures, collateral readings and topics.

Second Semester, Junior or Senior Year, three hours. Given in 1913-14, and in alternate years.

31-32. Diplomatic History of the United States, 1783 to 1910. *Year Course.*

A study of the actual negotiations between the United States and other countries and of the progress of international law as far as it has affected or been affected by the United States. Lectures, collateral readings and topics.

Junior or Senior Year, three hours. Given in 1912-13, and in alternate years. To be elected as Political Science 5-8.

25. Teachers' Course.

Lectures and text-book on the teaching of History in secondary schools. Class visitation; lesson plans; practice in teaching a class. Review of important periods of History taught in high schools.

Second Semester, Senior Year, two hours. This course is intended only for those who intend to teach history in secondary schools. (See under Pedagogy 10).

PROFESSOR WRIGHT.

15. Greek History.

Lectures and recitations emphasizing those Greek events and institutions that have had the most to do with shaping present ideals and modern culture. The studies will center in the Athens of the fifth century B. C.

First Semester, Freshman Year, three hours. (See note under 16).

PROFESSOR CALLAND

16. Roman History.

Rome's early struggle for existence, the extension of her power over Italy and her conquest of the ancient world. Emphasis will be laid upon Rome's military system, her provincial administration, the development of her literature and art, the economic causes which undermined the Republic, the reception of Christianity, the greatness and decline of the Empire to the Fifth century.

Second Semester, Freshman Year, three hours. Readings, recitations, and lectures. Given in 1912-13.

NOTE: The above courses in Greek History 15, and Roman History 16 are designed to form a continuous year-course; they may, however, be elected by the semester.

A MAJOR IN HISTORY consists of twenty-four semester-hours. Six of these must be Mediæval History 1-2 taken during Freshman or Sophomore year. The remaining 18 hours may be elected from the other courses offered in the department, barring course 25, except that: (a) Greek and Roman History (15-16), from considerations of continuity, will be accepted, as partially fulfilling the Major requirement only when taken in Freshman year. (b) Both English History (7-8) and American History (21-22) must be taken some time during Junior or Senior year. (c) Twelve hours deemed consecutive by the department must be taken during Junior and Senior years.

CORRELATED WORK. As correlated with History, the department recommends courses in Economics, Government, and Ancient and Modern Literatures. The courses in Art, Biblical Literature, and the History of Philosophy have proved helpful to students in European History.

LATIN

PROFESSOR CALLAND, PROFESSOR BURR

PROFESSOR BURR

1-2. Elementary Latin. *Year Course.*

This course is offered in two parts, *a* and *b*, each in alternate years.

1*a*. First Semester. Latin Grammar, Reading Exercises, comparison of Latin with English.

2*a*. Second Semester. Cæsar's *Gallic War*, four books. A review of noun forms and construction, Latin derivatives, prose composition.

The year's work will meet the wants of those who need the equivalent of two years of High School Latin for advanced courses in English, for the study of medicine or law, for college entrance in language, or for the further study of Latin.

1*b*. First Semester. Four to six of Cicero's orations, a review of forms and syntax, the Roman Republic, sight Latin and prose composition.

2*b*. Second Semester. Four to six books of Vergil's *Aeneid*, Latin prosody and mythology. An important end of the year's work is a better knowledge and use of English through the Latin.

Part *b* enables those who have taken *a*, or two or three years in the High Schools, to make four units of Latin and to enter Latin courses 3 and 4.

Freshman Year, four hours. Part *b* given in 1912-13; *a* given in 1913-14.

PROFESSOR CALLAND

3. Cicero and Livy.

Cicero: *De Senectute* will be carefully translated and studied. Training in pronunciation, syntax of the subjunctive. Livy: Portions of book XI. Special studies in the Second Punic War, such as the art of war among the Romans, Hannibal as a military genius, etc.; Livy's literary style and his worth as a historian.

First Semester, Freshman Year, three hours.

4. Horace.

Most of the Odes and a few of the Epodes will be read. Work in scansion and training in metrical translation; critical study of Horace's life and literary style; Roman social and political life in the time of Augustus.

Second Semester, Freshman Year, three hours.

5. Plautus, Terence, and Seneca.

One play of Plautus will be translated carefully; one of Terence and one of Seneca will be read more rapidly. Emphasis is laid on the linguistic and literary importance of these authors; idiomatic translation. Frequently a Latin comedy has been translated into English verse by the class.

First Semester, Sophomore Year, three hours.

6. Tacitus.

The *Agricola* and *Germania*, and selections from the *Annales*. Peculiarities of the author's style and syntax; readings by the instructor from other Latin authorities which may throw more light upon the history of the early Germanic race and its institutions.

Second Semester, Sophomore Year, three hours.

7. Roman Antiquities.

A course of lectures on the general topic: Public and Private Life Among the Romans. The Roman assemblies, officials, temples, basilicas, thermæ, aqueducts, roads, the family, house, food, dress, schools, amusements, etc., are treated somewhat in detail. The work is illustrated by lantern slides. This course is of much practical as well as cultural value. No knowledge of Latin is required.

First Semester, Sophomore, Junior, or Senior Year, three hours. Given every year.

8. Latin Composition.

Latin forms and syntax are taken up in the grammars and thoroughly reviewed. Short sentences illustrating points of syntax are duly emphasized. More formal exercises in composition follow, the work being, for the most part, based on writings of Cicero previously read by the class.

Courses 7 and 8 are required of students making Latin their Major.

Second Semester, Junior or Senior Year, three hours. Not given in 1913-14.

16. Advanced Latin Composition.

A continuation of course 8. Extended passages of English prose will be turned into classical Latin; word order and idiom receive attention; simple conversation in Latin.

Second Semester, Senior Year, one or two hours. Given whenever elected by four or more students.

9-10. Translation at Sight.

9. First Semester.
10. Second Semester.

Selections from various Latin authors, such as Cæsar, Nepos, Sallust, Ovid, Vergil, Pliny the Younger, and Aulus Gellius, will be translated as rapidly as possible. The object of the course is to enable the student to translate average Latin with greater comfort and rapidity. The reading of Latin without translating will be a feature of the course.

Sophomore, Junior, or Senior Year, one hour. Given whenever elected by six or more students.

11. Cicero.

The *De Officiis* or *Disputationes Tusculanae* will be read with special reference to their ethical teachings and value. Assigned topics and discussions.

First Semester, Junior or Senior Year, two hours. Not given in 1913-14.

13. Horace.

Selections from the Satires and Epistles. A study of Horace's philosophy of life; the influence of Greek philosophical schools on Horace's teachings. Papers on special topics.

First Semester, Junior or Senior Year, two hours. The course will be given occasionally instead of course 11.

12. Juvenal and Petronius.

Selections from Juvenal's Satires and Petronius' *Cena Trimalchionis.* Studies in Roman satire; Roman life under the Cæsars.

Second Semester, Junior or Senior Year, two hours. Not given in 1913-14.

14. Lyric and Elegiac Poetry.

Selections from Catullus, Ovid, Propertius, and Tibullus. The works and style of these writers will serve as a basis for the discussion of the literature in general of the Augustan Age.

Second Semester, Junior or Senior Year, two hours. This course will be given occasionally instead of course 12.

15. Lucretius.

A seminar course including translation of Book V and selections from other books of *De Rerum Natura.* Lucretius as a man, teacher, poet, and philosopher. Epicureanism among the Greeks and Romans; the atomic theory as a forerunner of modern scientific views.

First Semester, Junior or Senior Year, two hours. Given in 1913-14.

PROFESSOR BURR

18. Teachers' Course.

A careful review of portions of Cæsar, of the syntax of cases, and of Latin pronunciation; the ends and methods of the work in the first and the second year of Latin; class-visitation and practice teaching; comparison of text-books.

Second Semester, Senior Year, one hour.

20. Teachers' Course.

A review of one oration of Cicero, and of one book of the Aeneid, of verb forms and syntax, and of versification; the ends and methods of the study and the teaching of these authors; the Latin and the English as means of the expression of thought; class-visitation and practice teaching; suggestions as to text-books and reference works.

Second Semester, Senior Year, one hour.

Note.—Those planning to elect both 18 and 20 may take one in the Junior year. (See under Pedagogy 10).

LIBRARY SCIENCE

Miss Butlin

1. General Reference.

   The purpose of this course is to guide the student to an intelligent use of a modern library and to the pursuit of the various subjects in the college curriculum with greater facility. It is also recommended to those who contemplate graduate study or any form of research work. The course comprises lectures on the classification and arrangement of books in a library, bibliography, library catalogues, public documents and groups of reference books.

   First Semester, one hour. Open to all classes. Given annually.

3. Library Methods.

   A systematic study of the resources of a library as outlined above in course 1, to which is added a comparative study of library methods in general, with especial attention to cataloguing, classification and indexing. This course aims to qualify those expecting to teach to take charge of school libraries. Since library methods are so widely in use in the business world, the course should be of value also to those planning this career. Lectures, seminars and practice work in the library.

   First Semester, two hours. Open to Sophomores, Juniors and Seniors. Given annually.

MATHEMATICS

Professor T. A. Smith, Professor Hamilton

1. Trigonometry; forms a *Year Course* with 2.

   The greater part of the course is devoted to the development of formulæ and the reduction of identities. Enough time is given to the solution of triangles and the use of tables to make the student thoroughly familiar with this kind of work. This course takes up the elements of Trigonometry on the plane and on the sphere.

First Semester, Freshman Year, three hours. Given annually. Pre-requisite, one and one-half years in Algebra for entrance.

2. College Algebra; forms a *Year Course* with 1.

Much attention is given to graphical representation of linear equations and equations of the second degree. Mathematical induction and the binomial theorem for positive integral exponents, permutations and combinations, complex numbers, and the theory of equations are among the subjects studied.

Second Semester, Freshman Year, three hours. Given annually. Pre-requisite, one and one-half years in Algebra.

1a-2a. Review of Algebra, Trigonometry, College Algebra. *Year Course.*

1a. First Semester.
2a. Second Semester.

A course open to those who have presented for entrance to College both Plane and Solid Geometry, and only one year of Algebra. The work starts with a review of elementary Algebra, such as is usually given in the third semester of high school Algebra, continues with Plane and Spherical Trigonometry, and College Algebra, covering practically the same ground as course 1-2.

Four hours. Pre-requisites, Plane and Spherical Geometry and one year of Elementary Algebra. Given annually.

1b-2b. Solid and Spherical Geometry, Trigonometry, College Algebra. *Year Course.*

1b. First Semester.
2b. Second Semester.

A course for those who have presented for entrance only Plane Geometry and either a year, or a year and a half of Algebra. The work starts with Solid Geometry, continues with the Geometry of the sphere, and takes up in addition practically the same matter as course 1-2.

Four hours. Pre-requisite, one year of Plane Geometry. Given annually.

25-5. Analytic Geometry and Calculus. *Year Course.*

25. First Semester. Analytic Geometry.

An elementary treatment of the fundamentals of Analytic Geometry, of two and three dimensions, designed to equip the student for work in Calculus.

5. Second Semester. Calculus.

This, with course 6, makes a complete elementary course in Differential Calculus. Since the Calculus lies at the foundation of the modern treatment of the quantitative sciences, those who wish to acquire more than the mere elements of Physics, Engineering, Chemistry, and Astronomy should take courses 25, 5 and 6; these are required of all whose Major is in Mathematics.

Sophomore or Junior Year, three hours. Pre-requisite, course 1-2.

6. Calculus.

A continuation of course 5 which should be taken by all taking that course, as it will be, to a large extent, the fruition of the course in Calculus. Course 5 is necessarily of a preparatory character, so that the student realizes the value of the study of Calculus in course 6.

First Semester, Junior or Senior Year, three hours. Pre-requisite, course 25-5.

7. Calculus and Differential Equations.

Integral Calculus and an elementary treatment of Differential Equations, with applications to Physics and Mechanics. This should be taken by students completing course 6, since it is necessary to a well-rounded course in Mathematics.

Second Semester, Junior or Senior Year, three hours.

9-10. Theoretical Mechanics, or Applied Mathematics. *Year Course.*

9. First Semester.
10. Second Semester.

A valuable course to those who wish to realize what Mathematics can do in its applications to problems of Nature. It should be taken by those who mean to follow some branch of Engineering. The entire year may be given to Mechanics, or the latter portion to a discussion of the elements of Fourier's series, the Theory of Potential or the Theory of Functions.

Senior Year, three hours. Pre-requisites, courses 5 and 6, and Physics 1-2.

21. Elements of Analytic Geometry and Calculus.

This course is open to those who have taken 1-2 and do not wish to take the longer courses, 25, 5, and 6, yet desire a fair preparation for teaching Mathematics in high schools. It is also recommended to students in Economics and Chemistry, as giving the essentials of Mathematics required in certain phases of those subjects. Students who are looking forward to Engineering courses, or who may wish to take a Major in Mathematics, should elect courses 25, 5, and 6, instead of this briefer course.

First Semester, Sophomore, Junior, or Senior Year, three hours. Pre-requisite, course 1-2. Not given in 1913-14.

22. History of Mathematics and Teaching of Mathematics.

This course is designed to give a fair idea of the historical development of the science of Mathematics, as well as of its scope and extent. It is especially recommended to those who expect to teach Mathematics, or to go beyond the bare elements of the subject.

Second Semester, Sophomore, Junior, or Senior Year, three hours. Pre-requisite, course 5 or equivalent.

13-14. Descriptive Geometry. *Year Course.*

13. First Semester.
14. Second Semester.

The course deals with the mathematical theory of the representation of objects on a plane. It includes a thorough study of orthographic projection, some practice in perspective, and a somewhat complete view of the various methods used in map making, such as spherical, conic and other forms of projections.

Three hours. Pre-requisite, Mechanical Drawing. Given in 1913-14, and in alternate years.

23-24. Seminar in Practical Mathematics.

23. First Semester.
24. Second Semester.

The work of the course is based upon Mellor's *Higher Mathematics for Students of Chemistry and Physics*, the larger part of which is read by the class. This is supplemented by selections from Saxelby's *Practical Mathematics* and from other sources. The work is given in the form of lectures, recitations, and reports.

Senior Year, two hours. The course may be dropped by the student at the end of the First Semester. Given in 1912-13 and on demand of sufficient number to form a class.

MUSIC

Assistant Professor Sleeper

1-2. Elementary Music. *Year Course.*

1. First Semester.
2. Second Semester.

Notation, intervals, keys, scales, ear training.

Freshman Year, one hour.

3-4. Harmony. *Year Course.*

3. First Semester.
4. Second Semester.

Some ability in piano playing is required of students who elect Harmony.

Sophomore Year, three hours. Pre-requisite, course 1-2.

11-12. Counterpoint. *Year Course.*

11. First Semester.
12. Second Semester.

In courses 1-2, 3-4, and 11-12, emphasis is laid upon original work.

Junior or Senior Year, three hours. Pre-requisite, courses 1-2, 3-4. Given in 1913-14, and in alternate years.

7-8. General History of Music. *Year Course.*

7. First Semester.
8. Second Semester.

Junior or Senior Year, three hours. No pre-requisite. Given in 1914-15, and in alternate years.

13-14. Appreciation of Music. *Year Course.*

13. First Semester.
14. Second Semester.

Analytical study of masterpieces from the point of view of the listener.

Junior or Senior Year, three hours. No pre-requisite. Given in 1913-14, and in alternate years.

15-16. Public School Music. *Year Course.*

Designed primarily for teachers. Sight reading, ear training, dictation, child voice, school song, conducting.

Junior or Senior Year, two hours. Pre-requisite, course 1-2. Given in 1914-15, and in alternate years.

Courses in Music may be elected only after consultation with the Instructor.

PEDAGOGY

Professor Burr

1. Applied Psychology.

A course in the conditions and principles of mind-development in the process of education. Lectures, text-book, assigned readings, and application to school problems.

These practical applications of Psychology are meant to be helpful not only to those who may teach, but to all whose work may be with the minds of men, as in the professions of medicine, the ministry, the law, and in business.

First Semester, Junior or Senior Year, three hours. Pre-requisite, Psychology 2.

2. Methods and Organization.

A study of the ends and methods of class-instruction in secondary schools, of courses of study and of school organization. Lectures, text-book, readings, lesson-plans, practice teaching, and school visitation.

Second Semester, Junior or Senior Year, three hours. Pre-requisites: For Juniors, Pedagogy, 1; for Seniors, Psychology 2.

4. History of Education.

A study of the means and aims of Greek and of Roman education, and of the educational reformers of the seventeenth, eighteenth, and nineteenth centuries. Text-book and assigned readings.

Second Semester, Junior or Senior Year, two hours.

The above courses 1, 2, and 4, are given each year.

6. Moral and Religious Education.

The moral and religious life; its psychology; its child, adolescent and adult types; the means and methods of its unfolding and growth in the home, the Sabbath School, the Public School, and in the various forms of religious work. Lectures, readings and discussions.

The purpose of the course is a study of the principles and plans of moral and religious training for helpful service in the home, as teachers, Y. M. C. A. and Y. W. C. A. secretaries and assistants, as missionaries, pastor's assistants, and as members of church and society.

Second Semester, Junior or Senior Year, two hours. Pre-requisite for credit in the course, Psychology 2.

10. Teachers' Course.

Teachers' Courses of one or two semester-hours are offered in Botany, Chemistry, German, History, Latin, Mathematics, Physical Geography, Physics, and Zoology. Their purpose is to give some special preparation for teaching one or two subjects in high schools and academies. Description of these courses will be found under the respective departments. Only two semester-hours of these courses are accepted by the College towards the 120 hours required for graduation. Such courses are to be elected under Pedagogy 10 and do not count towards a Major or other requirements of the several departments.

Students before electing these courses will confer with the head of the department of Pedagogy.

Combinations of Courses. Those who expect to teach in the smaller high schools should endeavor to make these combinations in their preparation:

Botany and Physical Geography.
English, and Latin or German or History.
Latin and German.
History and Civics.
Mathematics, and Physics or Chemistry.

Note.—Those who desire the license to teach, issued by the State Superintendent of Public Instruction of Wisconsin in accordance with the requirements of the State Board of Examiners, should elect twelve hours, as follows: Psychology 2, Pedagogy 1 or 2, Teachers' courses amounting to two hours, and in addition four hours from the following courses: Pedagogy 1, 2, or 4, Psychology 6.

PSYCHOLOGY AND PHILOSOPHY

Professor Waugh

Psychology

2. Elementary Psychology.

An introductory course, giving, by means of lectures, recitations, and demonstrations, a general survey of the essential facts and fundamental laws of mind. Pre-requisite to all other courses in Psychology. Texts: Pillsbury and James.

First Semester, Junior or Senior Year, three hours. Second Semester, repeated, open to Sophomores, Juniors and Seniors. Psychology 2 and Philosophy 1 may be elected by Sophomores only after consultation with the head of the department and the student adviser.

3-4. Experimental Psychology.

This course gives an introduction to Experimental Psychology, and aims to familiarize the student with modern psychological methods, apparatus, and results. Typical experiments in the psychology of the senses, feeling, and movement. Lectures, laboratory work, and required readings.

Junior or Senior Year, three hours. Pre-requisite, course 2. Elective by the semester.

6. Comparative and Genetic Psychology.

A systematic study of mental development in the race and in the individual. The course will sketch the evolution of mind in the animal series, and trace the growth of mental functions in childhood, with special reference to educational theory. Lectures, reports, and paper on some selected topic. Texts: Washburn, *The Animal Mind*, Preyer, *The Infant Mind*.

Second Semester, Junior or Senior Year, three hours.

7. Reading Course.

From time to time a Seminar course may be organized, dealing with some particular topic, or reviewing the articles in current psychological journals.

Philosophy

1. Logic.

An introduction to the study of the elements of logic, with some reference to the problems of philosophy. The course aims to give the student an idea of the processes of formal logic, and a brief sketch of the inductive method. Lectures and exercises. Text: Creighton.

First Semester, Sophomore, Junior or Senior Year, three hours.

5. History of Ancient and Mediæval Philosophy.

A study of the development of philosophic thought, beginning among the Greeks and extending to the Renaissance. The method of instruction is largely by lectures. An elementary text is read, and considerable reading will be required from the sources. A thesis is required, Texts: Rogers, *Student's History of Philosophy*, Bakewell, *Source Book in Ancient Philosophy.*

First Semester, Junior or Senior Year, three hours.

6. History of Modern Philosophy.

The growth of European thought, as shown in typical systems from Bacon and Descartes through Kant, and important tendencies in post-Kantian thought. Lectures and required readings. Texts: Rogers, Rand, *Modern Classical Philosophers.* This course may be taken independently of course 5.

Second Semester, Junior or Senior Year, three hours.

8. Metaphysics.

A critical introduction to modern philosophical problems. The nature of being, the ground of knowledge, monism and pluralism, etc., and a view of pragmatism. Text: Fullerton, *Introduction to Philosophy.* Readings in Taylor, Royce, Dewey, James, and others.

Second Semester, Junior or Senior Year, three hours.

9 Aesthetics.

This course aims to develop a general theory of art-work which shall apply to all the fine arts. The psychology of the æsthetic state is discussed and special attention is given to the problems of unity, symmetry, rhythm, etc. Text: Gordon, *Esthetics.*

Second Semester, Junior or Senior Year, three hours. Pre-requisite, Psychology 2. Given when desired by a sufficient number of students.

Ethics.

PRESIDENT EATON, PROFESSOR WAUGH

1. Elementary Ethics.

   An introductory course, sketching the rise and development of various moral conceptions and codes, and discussing the leading ethical theories, with their bearings on some of the present problems of society.

   First Semester, Junior or Senior Year, one hour. Required of all students. This course is followed by course 7.

7. Ethics.

   A systematic course, investigating the psychological basis of conduct, tracing the growth of moral ideas in the race, and discussing various theories of the moral standard. Text: Dewey and Tufts, *Ethics*.

   Second Semester, Junior or Senior Year, three hours.

A MAJOR IN PHILOSOPHY AND PSYCHOLOGY consists of Psychology 2, Ethics 1, and fifteen semester hours selected from the courses in the department. Pedagogy 1 may be included. For A MINOR see p. 83.

PHYSICS

PROFESSOR CULVER

1-2. General Physics. *Year Course.*

   1. First Semester.
   2. Second Semester.

   A general elementary course, covering Mechanics, Heat, Wave-motion and Sound, Light, Electricity, and Magnetism. Lectures and recitations based on a standard text, accompanied by a systematic course in quantitative laboratory practice.

   Sophomore Year, four hours, consisting of three hours of lectures or recitations and one three-hour laboratory period. Pre-requisite, Mathematics 1-2.

3. Theory of Experimental and Applied Electricity.

A course of lectures, with collateral reading, on the fundamental principles of modern electrical appliances and machinery, together with a discussion of electric waves and their application to wireless telegraphy and telephony, the conduction of electricity through gases, and radio-activity.

First Semester, Junior or Senior Years, three hours. Pre-requisites, course 1-2, and Mathematics 5-6. Given annually.

5. Electrical Measurements.

A laboratory course, covering the refined measuring of resistence, electromotive force, current, inductance, power; the standardization and calibration of the various electrical meters; and the testing of the magnetic properties of iron.

Second Semester, Junior or Senior Year, three hours. Pre-requisite, course 1-2. The student is also urged to take course 3 before electing the course in Electrical Measurements. Given annually.

4. Light.

An advanced study of the theory of physical optics, covering dispersion, absorption, interference, diffraction, polarization, magneto-optics, fluorescence, and phosphorescence. The course will also include a treatment of the theory of optical instruments. Lectures and recitations based on Wood's *Physical Optics*, together with collateral reading.

First Semester, Junior or Senior Year, three hours. Pre-requisite, course 1-2 and Mathematics 5-6. Given in 1913-14, and in alternate years.

7. Laboratory Manipulation. Teachers' Course.

A course in which practical training will be given in the construction, calibration, and adjustment of laboratory apparatus. The course will include practical instruction in wood and metal-turning, bench work, glass working, and photography. Attention will also be given to methods of conducting laboratory work in Physics in secondary schools.

First Semester, Junior or Senior Year, two hours. Prerequisite, one year of college physics. Given in 1913-14 and in alternate years.

9. Musical Acoustics.

The subject matter of this course constitutes the physical theory of music, and will involve a treatment of the physical basis of pitch, chords, scales, quality, and the law of vibration of strings, plates, rods, and air in pipes. Lectures with illustrative experiments.

First Semester, Junior or Senior Year, three hours. Given in 1914-15, and in alternate years.

11-12. Theoretical Mechanics. *Year Course.*

11. First Semester.
12. Second Semester.

The course will cover the fundamental principles of statics and dynamics. The subject will be treated from an engineering standpoint, special attention being given to practical problems. Lectures and recitations based on Jeans' *Theoretical Mechanics.*

Junior or Senior Year, three hours. Pre-requisites, course 1-2 and Mathematics 5-6. Given in 1913-14, and in alternate years.

13-14. Applied Mechanics. *Year Course.*

13. First Semester.
14. Second Semester.

Lectures and recitations based on Hancock's *Applied Mechanics for Engineers.*

Junior or Senior Year, three hours. Pre-requisites, course 1-2 and Mathematics 5-6. Given in 1914-15, and in alternate years.

15-16. Advanced Physical Measurements.

15. First Semester.
16. Second Semester.

A laboratory course consisting of advanced experiments in mechanics, heat, sound, and light.

Junior or Senior Year, two hours. Elected by the semester. Pre-requisite, Physics 1-2. Given annually.

A Major in Physics shall consist of courses 1-2, 3, 5, a thesis (three hours) and any other three hours, except course 9.

The general course, 1-2, is designed to meet the requirements of those who wish to pursue the subject of physics as part of a liberal education, and also of those who desire to lay a foundation for advanced study, or to enter engineering courses.

Course 7 is designed to meet the needs of those who expect to teach Physics or other of the physical sciences.

Courses 1-2, 3, 5, and 15-16 should be taken by those expecting to study medicine or electrical engineering, or to teach physics.

Courses 11 to 16 inclusive should be taken by those planning to enter the other engineering professions.

A thesis, for which three hours credit is given, is required of all students majoring in this department.

POLITICAL SCIENCE.

Professor Way, Judge Rosa

PROFESSOR WAY

1-2. American Government and Politics. *Year Course.*

1. First Semester. American Federal Government and Party System. A study of the American Government, its executive, legislative and judicial departments, together with a study of the relation of the states to the nation and of the government of the states and territories, and the American Party System, including a sketch of parties, party leaders, and of presidential elections, with a study of party machinery and of current party problems.

2. Second Semester. State, City, and Local Govern-

ments. With the study of general features will be discussed the recent tendencies and improvements in state government, the relation of political parties thereto, and the needed improvements in City and Local government and the proposed plans.

This course is the introductory course in Political Science. Sophomore, Junior or Senior Year, three hours. Given annually.

3. International Law.

The main cases in Scott's *Cases on International Law* will be studied and briefs will be prepared and recitations thereon held in class. For additional study Hersey, Westlake, Oppenheim and Lawrence's *International Law* will be used.

First Semester, Junior or Senior Year, three hours. Given in 1913-14, and in alternate years.

4. Municipal Government in Europe and the United States.

The course discusses the chief causes of urban growth during the eighteenth century, the definition of the city as founded, the study of the development of the city in the United States, the position of the city in the United States, the contrast with the city in Europe, and the administration of cities. Recitations, lectures, and written exercises.

Second Semester, Junior or Senior Year, three hours. Not given in 1913-14.

5-8. American Diplomacy, 1783-1910. *Year Course.*

The course treats of the important international relations of America, from the establishment of the United Etates to the present day. Recitations, lectures and written work.

Junior or Senior Year, three hours. Open only to those who have taken or are taking the course in American Political History (History 21-22). Given in 1912-13, and in alternate years. See also History 31-32.

6. Political Theories and Philosophy of the State.

A study of the historical development of theories of the State, combined with an analysis of the political theories of the more important writers on the science of government and statesmanship. An examination of the nature, origin, form, and functions of the state, together with an analysis of the structure and province of government. Recitations, lectures, and written work.

Second Semester, Junior or Senior Year, three hours. Given in 1912-13, and in alternate years.

7. Constitutional Law of the United States.

This course aims to give the student an intelligent conception of the Constitutional Law of the United States, both state and federal. A standard text is used, and briefs are prepared by the students upon the famous legal decisions of the Constitution, as found in Thayer's or McClain's *Cases* or Dillon's *Marshall's Decisions*. The course can be taken most satisfactorily after the student has had courses 1-2 and History 21-22.

First Semester, Junior or Senior Year, three hours. Given in 1912-13, and in alternate years.

10. European Governments.

A study of the constitutional organization of the principal governments of Europe, especially England, France, and Germany, with considerable attention to political parties and current political questions.

Second Semester, Junior or Senior Year, three hours. Given in 1913-14, and in alternate years.

JUDGE ROSA

9. Commercial Law.

This course aims to present in a practical manner the Law of Contracts and Business Relations. An authoritative law text is used and cases are studied.

Second Semester, Junior and Senior Years, two hours.

A MAJOR IN POLITICAL SCIENCE consists of 21 hours, which shall include Courses 1-2, 3 or 7, and 5-8. They should be taken in the order indicated. Course 1-2 should be taken in Sophomore year. All students majoring in this department should be well grounded in the ancient languages and should have a good reading knowledge of French and German.

Eighteen hours should be elected under the advice of this department from the following courses, as correlated subjects: History 7-8 (English History), 11-12 (English Constitutional), History 21-22 (American Political), History 6 (Modern Europe since 1815), Economics 21-22, 8 (Industrial Corporations), 9 (Sociology), 14 (Financial History of the U. S.); Philosophy 6 (History of Modern Philosophy).

A Combined Major in Political Science and American History may be taken, by electing with the advice of the department of Political Science, courses 1-2, History 21-22 (American Political) with 9 additional hours in Political Science, American History, or both, and 18 selected hours of correlated studies.

PUBLIC SPEAKING.

Assistant Professor Crawford

1-2. Elementary Speaking. *Year Course.*

1. First Semester.
2. Second Semester.

This is an elemental course and a pre-requisite to all other work except courses 5, 10 and 11. The fundamentals aimed at are as follows: thought conception, power of analysis, orderly arranging of one's thoughts, mental grasp, self-control before the public and the effective delivery of a definite message. Incidentally such technique as the voice demands together with the correction of platform bearing complete the course. The work is developed by practical exercises and short original speeches.

Freshman Year, one hour.

5. Argumentation.

A study of the principles of analysis, brief-drawing, evidence, and persuasive presentation, designed to give the student ability in constructive thinking and in testing the argument of others. Three long forensics and numerous short exercises are required. Text-book, lectures, and outside readings. This course is pre-requisite to Public Speaking 3, 6, and 9.

First Semester, Sophomore or Junior Year, three hours.

6. Debating.

A practical and critical course in debate. Students appear in three debates before the class. The gathering of material, brief-drawing, and construction of the argument are done under the personal direction of the instructor. Each student also speaks several times from the floor. The theory of debate, including burden of proof and methods of proof and refutation, are studied, together with the elements of effective presentation upon the platform.

Second Semester, Sophomore, Junior, or Senior Year, three hours. Pre-requisite, course 5. As the size of the class is limited, the consent of the instructor must be obtained for entrance to the course.

7-8. Extempore Speaking. *Year Course.*

7. First Semester.
8. Second Semester.

Students speak regularly before the class upon topics that have been assigned for investigation. The form of a short extempore speech, to meet varying situations, is first discussed critically, and then practiced by the class. The aim constantly kept in mind is to stimulate students to think out their own opinions, to use the library as a storehouse of material, and to acquire fluency in platform presentation.

Junior or Senior Year, two hours. Pre-requisite, course 1-2.

3-4. The Forms of Public Address. *Year Course.*

A study is made of the more important kinds of public address, including the eulogy, after-dinner speech, political speech, and speech for a special occasion. Under each form an analysis of masterpieces and a study of principles precede the composition and delivery of addresses by members of the class.

Junior or Senior Year, three hours. Pre-requisite, course 5.

9. Political Speaking.

This course will be offered only to those specially qualified for the work. The Presidential and Congressional elections furnish the background for the course. The campaign questions, methods and speeches will be studied and opportunities to address political assemblies given.

First Semester, Senior Year, two hours.

10. Literary Interpretation.

This is a fundamental course in expressional reading. The purpose is to give oral expression to those thoughts in literature that too often are only faintly realized. Only Nature's and Truth's own response is developed. Expression for the real message's sake and not for art's sake is sought.

Sophomore, Junior, or Senior Year, two hours. (For Young Women.)

11. Public Speaking for Young Women.

This course aims to fit young women for all those public and semi-public occasions at which they might be called upon to speak. Addresses varying with the social occasions will be studied, composed and delivered. The organizing and conducting of public and social meetings together with incidental technique of the voice complete the aims of the course.

Sophomore, Junior, or Senior Year, two hours.

RHETORIC

Assistant Professor Clancy, Miss Adams, Mr. Merriam

1-2. Rhetoric. *Year Course.*

The theory and practice of composition in its various forms. Text-books, lectures, and analysis of illustrative specimens selected from the masters of prose style assist the student in securing a knowledge of the principles of good writing. These principles are applied constantly in theme-writing. Each student meets his instructor in frequent individual conferences. Students who are found to be deficient in spelling, punctuation, grammar, or sentence-structure will be required to take special work to make up the deficiency.

Freshman Year, two hours. Required of all students.

ASSISTANT PROFESSOR CLANCY

3-4. Advanced Composition.

3. First Semester.
4. Second Semester.

For students who desire further practice in expository and descriptive writing. Discussion of principles and examination of specimen essays, particular attention being given to the prose of contemporary writers. Reports on assigned readings. In addition to frequent short themes, several papers of considerable length are required.

Sophomore, Junior, or Senior Year, three hours. Students who have made an exceptionally high record in Rhetoric 1-2 will be admitted to the second semester's work without taking the first semester.

5. Argumentation.

See under **Public Speaking.**

10. Journalistic Writing.

This course gives a considerable amount of rapid practice in the various forms of journalistic writing, such as news items, editorials, criticisms, and the like. Students are asked to do actual reporting in the city and are taught the general principles underlying the make-up of the newspaper. There is also some examination of the purpose and methods of the modern newspaper.

Second Semester, Sophomore, Junior, or Senior Year, two exercises, counting as three hours. Open to those who have completed course 1-2. Given in 1912-13, and in alternate years.

12. Short Stories.

Several short stories are written by each member of the class. Lectures and assigned readings on the principles and history of the short story, accompanied by the reading of a number of specimens.

Second Semester, Junior or Senior Year, three hours. Election of this course should be made only after consultation with the instructor. Not given in 1913-14.

8. Verse Composition.

Regular weekly practice in writing or translating verse in standard forms. Instruction is given by individual consultation and criticism.

Second Semester, Junior or Senior Year, two hours. This course may be elected only by consent of the instructor. Not given in 1913-14.

ROMANCE LANGUAGES

Assistant Professor Young, Mr. Horst

French

1-2. Beginning French. *Year Course.*

1. First Semester.
2. Second Semester.

The elements of French grammar; the reading of easy texts; drill in pronounciation. composition.

Freshman or Sophomore Year, three hours.

ASSISTANT PROFESSOR YOUNG

5-6. French Drama or Novel. *Year Course.*

5. First Semester.
6. Second Semester.

Study of the drama or novel from the beginnings to the present day.

Junior or Senior Year, three hours. Pre-requisite, course 3-4, or an equivalent. Given in 1913-14.

7-8. Conversation and Composition. *Year Course.*

Junior or Senior Years, three hours. Pre-requisite, course 3-4, or an equivalent.

9-10. General Survey of French Literature. *Year Course.*

9. First Semester.
10. Second Semester.

Reading of representative works from the Renaissance to the present day. Lectures, outside reading, and reports.

Junior or Senior Year, three hours. Pre-requisite, course 3-4, or an equivalent. Given in 1914-15.

11-12. Masterpieces of French Literature of the Nineteenth Century.

11. First Semester.
12. Second Semester.

Study of the great works of the nineteenth century. Lectures, assigned readings, and reports.

Junior or Senior Year, three hours. Pre-requisite, course 3-4, or an equivalent. Given in 1912-13.

Note.—Any two of the courses 5-6, 9-10, 11-12, which are given in rotation, may be taken in successive years.

MR. HORST

3-4. French Readings. *Year Course.*

3. First Semester.
4. Second Semester.

Modern short stories and dramas. Six lectures each semester on the development of French literature. Conversation and composition.

Sophomore, Junior, or Senior Year, three hours.

Italian.

ASSISTANT PROFESSOR YOUNG

1-2. Elementary Italian. *Year Course.*

1. First Semester.
2. Second Semester.

Elements of Grammar, reading of easy texts, drill in pronunciation, composition.

Sophomore, Junior, or Senior Year, three hours. To alternate with Spanish 1-2. Given in 1912-13.

3-4. Italian Literature. *Year Course.*

3. First Semester.
4. Second Semester.

The greater part of the time in this course will be devoted to the study of Dante, but there will also be consideration of other writers and some drill in the practical use of the language.

Junior or Senior Year, three hours. Given in 1913-14, and in alternate years.

Spanish

ASSISTANT PROFESSOR YOUNG.

1-2. Elementary Spanish. *Year Course.*

1. First Semester.
2. Second Semester.

The course consists of the elements of grammar; the reading of easy texts; drill in pronounciation, and composition.

Sophomore, Junior, or Senior Year, three hours. Given in 1913-14.

3-4. Advanced Spanish. *Year Course.*

3. First Semester.
4. Second Semester.

Reading modern novels and plays. According to the wishes of the class, a part of the time will be given to conversation or an introduction to Commercial Spanish.

Junior or Senior Year, three hours. Given in 1914-15, and in alternate years.

A MAJOR IN ROMANCE LANGUAGES consists of 24 semester-hours, with French 1-2 or an equivalent as pre-requisite.

Degrees Conferred at Commencement

1912

BACHELOR OF ARTS

Summa cum Laude

Alice Mildred Helm
William Richard Nethercut, Jr.
Lawrence Howard Riggs

Magna cum Laude

Lloyd Vernor Ballard
Grace Berenice Cooper
Harry Edward Goodell
Ethel Grace Hoag
Viola Ottilie Lipman

Cum Laude

Charles Clarence Adams
June Baker
Robert Henry Becker
Lois Sanborn Brown
May Lilian Browning
Harold Rozell Bruce
Martha May Carter
Alice Winifred Cornelius
Esther Rose Dahlberg
Adele De Lano
Margaret Seaton Densmore
Gladys Marie Dodd
Luther Roy Frame
Jessie Elizabeth Franz
Laura L. Gorham
John Gross
Frances Adelle Hartmann
Arthur Dwight Hoy
William Lorraine Levedahl
Florence Jane McLay
Ruth Emily McMurry
Reginald Atwater Morgan
Grace Emma Pearce
Jennie Edith Peterson
Florence Isabel Ralston
Roland Fairfield Robie
Blanche Faye Robinson
Vera Grace Smiley
Ethel Marion Todd
William Brennan Webster

John Wright Albers
William Randall Crosby
Harry Dalton Francis
Arthur Thomas Guest
Grace Lyman
Barbara Day Moore
Clinton M. Osborne
Erma Anna Shoemaker

John Tuttle Hubbard
Jane Johnson
Andrew Lathrop Steele
Roy Allen Sleep
Frederick Raynsford Warner

BACHELOR OF SCIENCE

Magna cum Laude

Mabel Wade

Cum Laude

Marvin Earle Golding
Royal Riford Hinckley
Emmor Lee Mussetter
Ingle Roosevelt Shue
George Washington Simons, Jr.
William Edgar Stone
Helen Beach Walker
James Manuel Wolfe

Reuben Havland Bronson
William Thomas Ewing
Robert Ellis Pearsall
William Spooner, Jr.
James Rudolph Torgrim
Harold Edward Wolcott
Benjamin Peter Wolfe

HONORS IN SCHOLARSHIP IN PARTICULAR DEPARTMENTS

Lloyd Vernor Ballard	Political Science
Royal Riford Hinckley	Chemistry
William Richard Nethercut, Jr.	Economics

Award of Prizes

1911-1912

THE LEWIS PRIZE

Blanche Faye Robinson	Class of 1912

THE DECLAMATION PRIZES

Oscar Alexander Ahlgren	Class of 1915
Filmer Stuart Cuckow	Class of 1915

THE EMERSON PRIZE

Not awarded.

THE RICE PRIZE

Gaylord Walter Ramsay	Class of 1913

THE MISSIONARY PRIZE

Not awarded.

THE LOGAN PRIZES

Lawrence Howard Riggs	Class of 1912
Robert Henry Becker	Class of 1912

THE HAY PRIZE

Harold Rozell Bruce	Class of 1912

THE FINE ARTS PRIZE

Florence Mary Jones	Class of 1913
David Wattell Naftalin	Class of 1913

THE HORACE WHITE PRIZE

Edna Viola Amborn	Class of 1914
Blanche Morton Howard	Class of 1914

THE JACKSON J. BUSHNELL PRIZE

Alfred Newman Barron	Class of 1913

THE ELIZABETH MCMOLLEN PRIZE

Lloyd Vernor Ballard	Class of 1912

THE CHARLES F. READ PRIZE

Luther Roy Frame	Class of 1912

THE MIDDLEBROOK PRIZES

Harold Rozell Bruce	Class of 1912
John Gross	Class of 1912
Gerald LeRoy McMullen	Class of 1915
John Henry Nair, Jr.	Class of 1915
John Kellogg Rich	Class of 1915
Andrew Lathrop Steele	Class of 1912

THE STUDENT COUNCIL

Arthur N. Brown
Arthur Collins
Robert Haylett
Charles Hyde
Philips Macumber
Gaylord Ramsay

Earl Caskey
Clark Currier
John Martin
Harold Wade

Elliott Denney
Thomas Gharrity

Gordon Anderson
Lyle Ballard

Directory of Students

In the following directory, C. H. stands for Chapin Hall, E. H. for Emerson Hall, J. H. for Junior House, S. C. for Stowell Cottage.

GRADUATE STUDENT

Edna Hermine Menger	Beloit	747 Park Ave.

SENIOR CLASS

Adams, Harry Leslie	Cedar Rapids, Ia.	1248 Chapin St.
Baker, Robert A.	Manhattan, Ill.	1248 Chapin St.
Barron, Alfred Newman	Yorkville, Ill.	Hillcrest
Blunt, Valeria Evans	Clinton, Ia.	E. H.
Brown, Arthur Norman	Wauwatosa	842 Harrison Ave.
Browne, Christopher W.	Chicago, Ill.	424 Prospect St.
Buck, Homer Allen	Fort Atkinson	C. H.
Burke, Walter Smith, Jr.	Batavia, Ill.	1125 Chapin St.
Clinchy, Anna Ruth	Beloit	936 Harrison Ave.
Collins, Arthur Farquhar	Hinsdale, Ill.	1125 Chapin St.
Cooper, Estelle	Clinton	E. H.
Dickinson, Ruth Boyd	Lake Geneva	E. H.
Dooley, John Wallace	Wyocena	Montgomerie Pk.
Durgin, Elmer Ralph	Racine	C. H.

Ebert, George Louis	Beloit	727 Central Ave.
Entrikin, Ralph Knowles	Moline, Ill.	Montgomerie P'k
Fellows, Harriet La Fevre	Sioux Falls, So. Dak.	E. H.
Gayton, Lulu Catherine	Beloit	841 Highland Ave.
Gillies, Walter Scott	Evansville	Montgomerie P'k
Goff, Rispah Britton	Elkhorn	E. H.
Greene, Adaline	Beloit	622 Broad St.
Greenlee, Edith Margaret	Argyle, Ill.	E. H.
Hammond, Walter Willis	Beloit	849 Park Ave.
Haylett, Robert Everett	Milwaukee	1248 Chapin St.
Hiller, Harrod Elliott	Kahoka, Mo.	740 Broad St.
Holmes, Bert Chase	Evansville	1125 Chapin St.
Hutson, Percival W.	Sparta	424 Prospect St.
Hyde, Charles Lee, Jr.	Pierre, So. Dak.	Montgomerie P'k
Jones, Florence Mary	Delavan	E. H.
Kent, Sherman Edwards	Beloit	635 Park Ave.
Kittelson, John Asdal	Beloit	624 Church St.
Lauderdale, Lila Mae	Elkhorn	E. H.
McCoy, Ralph Weston	New Richmond	1125 Chapin St.
Macumber, Philips Harlow	Beloit	751 Church St.
Mereness, Luella Frances	Beloit	E. H.
Miller, James Allen	Toulon, Ill.	Montgomerie P'k
Monson, E. Hjalmar	Blanchardville	424 Prospect St.
Naftalin, David Wattell	Chicago, Ill.	Hillcrest
Northrop, Marjorie Filmer	Beloit	818 Church St.
Pellet, Frederic Dwight	Oak Park, Ill.	745 Milwaukee Rd.
Petersen, Elsa Mabel	Dundee, Ill.	E. H.
Pike, Georgia Lillian	Beloit	1005 Chapin St.
Ramsay, Gaylord Walter	Chillicothe, Ill.	424 Prospect St.
Reed, Bessie Davis	Beloit	1215 Bushnell St.
Reid, Mary Iva	Rockford, Ill.	E. H.
Shoemaker, Grace	Sparta	E. H.
Smith, Elizabeth	Beloit	649 Harrison Ave.
Stahlnecker, Marion Walter	Beloit	824 Roosevelt Ave.
Sutherland, Mildred Louise	Madison	E. H.
Thornton, Agnes	New Bedford, Mass.	E. H.
Turney, Marguerite Frances	Aurora, Ill.	E. H.
Van Lone, Irwin Ivan	Beloit	327 W. Grand Ave.

Seniors—52

JUNIOR CLASS

Aldrich, Lynn Ellis	Rockford, Ill.	1248 Chapin St.
Alpine, John Gorman	Joliet, Ill.	1248 Chapin St.
Amborn, Edna Viola	Beloit	1003 Prairie Ave.
Anderson, Morgan McDonald	Milwaukee	745 Milwaukee Rd.
Bates, Lynn Alan	Allison, Ia.	C. H.
Bates, Winifred	Capron, Ill.	J. H.
Beane, Eunice	Beloit	1205 Emerson St.
Blazer, Gertrude Elizabeth	Beloit	509 Broad St.
Bridgman, Robert L.	Beloit	953 Vine St.
Brittan, Mary	Beloit	541 Park Pl.
Caskey, Earl James	Beloit	842 Bluff St.
Canright, Emory M.	Fairmount, Minn.	424 Prospect St.
Chesbrough, Gertrude	Beloit	651 Park Ave.
Christie, Ruth	Austin, Minn.	J. H.
Crawford, Chrissie Louise	Baraboo	424 Prospect St.
Currier, Clark	Aurora, Ill.	936 Park Ave.
Day, Clifford Louis	Beloit	950 Park Ave.
DeLancey, Mary	Elgin, Ill.	J. H.
Densmore, E. Dorothy	Beloit	718 Clary St.
Dexter, Paul Lathrop	Ashland	147 W. Grand Ave.
Eakin, Eleanor Jane	Elgin, Ill.	J. H.
Emerson, Cordelia	Beloit	736 Church St.
Fuller, Hazel Marguerite	Beloit	511 Public Ave.
Funk, Raymond Oswald	Carver, Minn.	1248 Chapin St.
Goll, Robert, Jr.	Milwaukee	1248 Chapin St.
Gray, Philip Marshall	Chicago, Ill.	1125 Chapin St.
Gregory, Gladys	Beloit	516 College St.
Hartley, Everett Charles	Carver, Minn.	1125 Chapin St.
Hevey, John Arthur	Beloit	1213 Lawrence Ave.
Howard, Blanche Morton	Waupun	J. H.
Johnson, Ben Frank	Pine River	C. H.
Johnson, James King	Waterloo	745 Milwaukee Rd.
Krengel, Irving Hubner	Elgin, Ill.	1248 Chapin St.
Learnard, Ralph King	Joliet, Ill.	1248 Chapin St.
McClellan, James Maxwell	Hamilton, Ohio	C. H.
McGarvey, Agnes	Wilton	804 Church St.
McOwan, Amy Arabelle	Yorkville, Ill.	J. H.
Merriman, Kathryn Marion	Beloit	1304 Prairie Ave.

Mills, Margaret Elizabeth	Oak Park, Ill.	J. H.
Murdock, Marjorie	Beloit	551 E. Grand Ave.
Murphy, James Emmett	Janesville	740 Broad St.
Nethercut, Marjorie Warren	Wauwatosa	J. H.
Northrop, Marshall Mills	Beloit	818 Church St.
O'Connor, Richard Goodhue	Whitewater	745 Milwaukee Rd.
Pearsall, Clifford J.	Evansville	1125 Chapin St.
Pierce, Louise Winifred	Elgin, Ill.	J. H.
Pollock, Willits	Milwaukee	1248 Chapin St.
Raisen, Earl Dalton	Milwaukee	C. H.
Renwick, Henrietta	Warren, Ill.	J. H.
Rosenblatt Doretta Lillian	Beloit	431 Harrison Ave.
Russell, Marion	Elgin, Ill.	J. H.
Saxton, Lillian Margaret	Belvidere, Ill.	E. H.
Sayre, Ralph	Beloit	315 Locust St.
Smith, Rebecca	Beloit	649 Harrison Ave.
Sterling, Marie	Austin, Minn.	E. H.
Sullivan, Julia G.	Cherokee, Ia.	E. H.
Sutherland, Arlie	Janesville	J. H.
Taylor, Gertrude Diana	Delavan	J. H.
Theobald, Harold	Evansville	Montgomerie P'k
Thompson, Edna Mary	Spring Valley, Ill.	J. H.
Thompson, Laura Josephine	Beloit	316 St. Lawrence Ave.
Thornton, Emily	New Bedford, Mass.	J. H.
Turner, Hallie Frances	Albany	J. H.
Wade, Harold	Wrentham, Mass.	Montgomerie P'k
Wallace, George Allan	Oak Park, Ill.	745 Milwaukee Rd.
Way, Charles Thomas	Fox Lake	424 Prospect St.
Weirick, Bessie Muriel	Beloit	211 St. Lawrence Ave.
Wickhem, Elizabeth Marie	Beloit	451 Prairie Ave.
Willard, Harold Allen	Belvidere, Ill.	1248 Chapin St.
Williams, Mary	Delavan	J. H.
Williams, Phoenix Edward	Delavan	1248 Chapin St.
Williams, Ralph Stephen	Sparta	1248 Chapin St.
Williams, William Pearce	Ewing, Ill.	Hillcrest
Williamson, W. Rowland	Memphis, Tenn.	745 Milw. Rd.
Woodward, Clair Linton	Orchard, Ia.	740 Broad St.

Juniors—75

SOPHOMORE CLASS

Ahlgren, Oscar Alexander	Whiting, Ind.	Hillcrest
Bachus, Arthur Carl	Fort Atkinson	424 Prospect St.
Bailey, Edith Marian	Geneva, Ill.	E. H.
Ballard, Olive Mabel	Wayne, Ill.	E. H.
Barker, Leavitt Randall	Clinton, Ia.	1248 Chapin St.
Barron, Raymond Millard	Yorkville, Ill.	C. H.
Bates, Gilbert Marcus	Duluth, Minn.	424 Prospect St.
Batesole, Glen Lyman	Aberdeen, So. Dak.	Hillcrest
Beckus, Ebba Cecelia	Beloit	R. F. D. 29, Box 4
Belding, Grace M.	Janesville	E. H.
Borden, Alice Holman	Milton	E. H.
Borden, Don Albert	Milton	1125 Chapin St.
Boreson, Bradner Frank	Beloit	1059 Park Ave.
Brace, George Quigley	Sparta, Mich.	424 Prospect St.
Brown, Carroll Warren	Fort Atkinson	740 Broad St.
Buckley, Gladys Elizabeth	Beloit	1249 Emerson St.
Buckmaster, Ben Stalker	Kenosha	Hillcrest
Burno, Louis Kelsey	Chicago, Ill.	745 Milwaukee Rd.
Butters, Harold Albert	Ottawa, Ill.	1248 Chapin St.
Clark, Mary Irene	Beloit	751 Church St.
Cooke, Benjamin Franklin	Compton, Ill.	740 Broad St.
Cruger, Ruth	Watertown	E. H.
Cuckow, Filmer Stuart	Janesville	C. H.
Denney, Elliott Stevenson	Aurora, Ill.	745 Milwaukee Rd.
Denney, Ellis Houston	Cedar Rapids, Ia.	716 Broad St.
Douglas, Grace	Brodhead	E. H.
Dubee, Stuart William	Beloit	632 Church St.
Dudley, Jennie Marion	West Salem	E. H.
Eidam, Arthur Edward	Chicago, Ill.	745 Milwaukee Rd.
Elliott, Arthur Charles	Rochester, Minn.	745 Milw. Rd.
Elwell, Mary Frances	McGregor, Ia.	751 Church St.
Fairfield, Ronald James	Minneap'lis, M'n.,	1248 Chapin St.
Ferris, Holmes Dunbar	Princeton, Ill.	424 Prospect St.
Fisk, John Lewis	Beloit	763 Milwaukee Rd.
Ford, Allen Wescott	Lacon, Ill.	1125 Chapin St.
Fucik, George Charles	Chicago, Ill.	740 Broad St.
Galloway, Joseph Lawrence	Fort Atkinson	1125 Chapin St.
Gay, Willard Spencer	Ottawa, Ill.	1248 Chapin St.

Gharrity, Thomas John	Beloit	1132 Partridge Ave.
Gilfillan, William Emmett	Chillicothe, Ill.	Montgomerie P'k
Grant, Lillian Ward	Southfield, Mass.	742 Church St.
Habberstad, Earle Sylvanus	Lanesboro, Minn.	Hillcrest
Halverson, Donald L.	Whitewater	1248 Chapin St.
Hammond, Alva Merwin	Beloit	849 Park Ave.
Haviland, Muriel Pearl	Janesville	748 Prairie Ave.
Helgesen, Charity Agnes	Waupun	E. H.
Hineline, Harry Dale	Beloit	653 Park Ave.
Holliday, Houghton	Red Wing, Minn.	C. H.
Hoover, Blaine	DeKalb, Ill.	Hillcrest
Horstmann, Edith Laura	Beloit	737 Euclid Ave.
Hotchkiss, Ruth Odetta	Elkhorn	E. H.
Hulburt, Stennett Chauncey	Beloit	724 Clary St.
Hull, Marjorie	Beloit	725 Euclid Ave.
Hurn, Mark	Union Grove	C. H.
Jacobsen, Edmund Lewis	Pierre, So. Dak.	Montgomerie P'k
Jacobson, Nina Josephine	Clinton	E. H.
Kelly, Gooding Norton	Wausau	1248 Chapin St.
Kelley, Helen Beardsley	Beloit	723 Prairie Ave.
Kerndt, Robert Henry	Lansing, Ia.	745 Milwaukee Rd.
King, Charles Rutherford	Watertown	1125 Chapin St.
Lamb, Arthur Daniel	Chicago, Ill.	Montgomerie P'k
Lerch, Roger Sherman	Duluth, Minn.	424 Prospect St.
Lowe, Harry Lester	Beloit	1248 Chapin St.
Lowrey, Alice Irene	Oak Park, Ill.	E. H.
McMullen, Gerald LeRoy	Clinton, Ia.	1248 Chapin St.
Macklem, Jane Crozier	Beloit	833 Park Ave.
Marsden, Pearl Camilla	Janesville	424 Harrison Ave.
Marsh, Corinne Lois	Beloit	850 Hackett St.
Martin, John George	Oak Park, Ill.	1248 Chapin St.
Mershon, Harvey Grant	Rockford, Ill.	931 Church St.
Mewhirter, Agnes Bourton	Yorkville, Ill.	E. H.
Miller, Helen Devore	Geneva, Ill.	E. H.
Moss, Agnes Gertrude	Beloit	744 Prairie Ave.
Munn, Grace Mary	Beloit	528 Bluff St.
Nair, John Henry, Jr.	Fort Atkinson	Hillcrest
Neill, David Holland	Aberdeen, So. Dak	Hillcrest
Pettibone, Dorothy Foster	Burlington	E. H.

Piggins, Ralph Sproule	Milwaukee	632 Milwaukee Rd
Pike, Eva Harriet	Beloit	1005 Chapin St
Pile, Homer Bennett	Dodgeville	535 Public Ave.
Place, Margaret Ethel	Marinette	E. H.
Prouty, Ernest Andrew	Sandusky	C. H.
Radcliffe, Marie Beatrice	West Allis	E. H.
Rau, Ruth Higley	Beloit	757 Euclid Ave.
Rich, John Kellogg	Evergr'n P'k, Ill.	1248 Chapin St.
Robinson, Henry Duncan	Rockford, Ill.	716 Emerson St.
Ryon, Harrison John	Charles City, Ia.	745 Milw. Rd.
Sayler, Arthur	Huntington, Ind.	1125 Chapin St.
Shipton, Andus Walton	Woodstock, Ill.	740 Broad St.
Steiner, Roy S.	Wauwatosa	Montgomerie P'k
Stout, Helen Knight	Minneapolis, Minn.	E. H.
Taylor, Grace Elizabeth	Delavan	E. H.
Thacher, Luella	Beloit	912 Clary St.
Thompson, Kenneth Chelsea	La Grange, Ill.	441 Prairie Ave.
Tower, Nelle	Beloit	910 Broad St.
Tracy, Don Wayne	Merrill	C. H.
Trowbridge, Dorothy A.	Viroqua	E. H.
Van Hecke, Maurice Taylor	Chicago, Ill.	424 Prospect St.
Wade, Esther	Wauwatosa	E. H.
Westine, Fred E.	Kenosha	Hillcrest
Whittemore, Lola Sybel	Beloit	725 Euclid Ave.
Wilcox, Horace Wilson	Charlotte, Mich.	740 Broad St.
Wilcox, Thornton	Rockford, Ill.	C. H.
Williams, Lawrence Henry	Delavan	1248 Chapin St.
Wing, Helen Florence	Elgin, Ill.	E. H.
Worthington, Asenath D.	Beloit	846 Harrison Ave.
Young, Walter Eldo	Alcester, So. Dak.	C. H.

Sophomores—107

FRESHMAN CLASS

Adams, Vera	Beloit	R. F. D. No. 1
Aldrich, Warren Holder	Rockford, Ill.	1248 Chapin St.
Allen, George Buell	Independence, Ia.,	763 Milw. Rd.
Anderson, Gordon Gillett	Milwaukee	1248 Chapin St.
Armin, Florence Mary	Spokane, Wash.	S. C.
Bailey, Emmett Chester	Beloit	424 Harrison Ave.
Baker, Annie Katherine	Beloit	1064 Harrison Ave.
Baldwin, Philip Leseur	Washington, D. C.	C. H.
Ballard, George Lysle	Beloit	929 Harrison Ave.
Barker, Harold Norwood	Battle Creek, M'ch.	719 Bushnell St
Beimer, Eugene Criss	Sac City, Ia.	Hillcrest
Belding, Ora Lucile	West Chicago, Ill.	S. C.
Bentley, Howard Delos	Beloit	1102 Milwaukee Rd.
Birkett, Glenn William	Belvidere, Ill.	424 Prospect St.
Blazer, Richard R.	Beloit	509 Broad St.
Bostwick, Sydney Coryell	Janesville	1125 Chapin St.
Brandt, Ellis Rolland	Beloit	1008 Church St.
Brown, Irving Lewis	Rockford, Ill.	Hillcrest
Brown, Julian	West Salem	Hillcrest
Brunsvold, Bernice Cornelia	Beloit	744 Ninth St.
Burlingame, Helen	Cherokee, Ia.	S. C.
Burton, Emma Derickson	Philadelphia, Pa.	819 Park Ave.
Burtt, Albert Frasee	Momence, Ill.	Montgomerie P'k
Camp, Edwin Warren	Clinton, Ia.	Beloit Hospital
Candy, Walter Charles	Dakota, Ill.	C. H.
Carey, George	Beloit	918 Chapin St.
Carlson, Ellsworth Eugene	Chicago, Ill.	Beloit Hospital
Collier, Robert, Jr.	Denver, Colo.	C. H.
Copeland, James Henry	Milwaukee	1248 Chapin St.
Daemicke, Mae Catherine	Chicago, Ill.	S. C.
Davis, Marguerite	Williams Bay	S. C.
Dempsey, Arthur V.	Belvidere, Ill.	1125 Chapin St
DeViney, Albert Ferris	Cutler, Ill.	C. H.
Dieckhoff, John Carl	Ft. Atkinson	C. H.
Doner, Ralph Douglas	Gorman, So. Dak.	Montgomerie P'k
Dougherty, Wallace Robert	Glenwood, Minn.	717 Emerson St.
Eby, Mildred Florence	Aurora, Ill.	E. H.
Evans, Elwyn	Dodgeville	C. H.

Ewing, James Goddard	Freeport, Ill.	Montgomerie P'k
Fiske, William Hall	Beloit	763 Milwaukee Rd.
Flexer, Irma Orminda	Joliet, Ill.	S. C.
Flugum, Omar Jacob	Stoughton	C. H.
French, Chellis	Rockford, Ill.	C. H.
Frisbie, Florence	Cherokee, Ia.	S. C.
Frost, Roland Curtis	Sioux City, Ia.	C. H.
Gavigan, Patrick	Blanchardville	C. H.
Gerth, Etta Burdett	Beaver Dam	S. C.
Habberstad, Claude Clayton	Lanesboro, Minn.	Hillcrest
Halsted, Herbert Foltz	Rockford, Ill.	C. H.
Hanna, Philip Winchester	Oak Park, Ill.	1248 Chapin St.
Hansen, Waldo Gravedale	Beloit	119 W. Roosevelt Ave.
Harrington, Elliott Dean	Elkhorn	C. H.
Hawkins, James Sumner	Marion, Ind.	723 Prairie Ave.
Hay, Ralph	Rockford, Ill.	Montgomerie P'k
Henry, Harry John	Jefferson	C. H.
Hill, Oral M.	Streator, Ill.	S. C.
Hiller, Hugh Milligan	Kahoka, Mo.	740 Broad St
Hissem, Joe Teeter	Mt. Carroll, Ill.	1125 Chapin St.
Hobart, Harriet Laura	Roscoe, Ill.	Roscoe, Ill.
Holmstrom, Myrtle Marie	Joliet, Ill.	S. C.
Howard, Lawrence	Columbus	613 Prairie Ave.
Hubbell, Margaret Eliza	Beloit	1421 Lawrence Ave.
Hulburt, Clarence Fay	Beloit	724 Clary St.
Hurd, Florence May	Edgerton	S. C.
Jacobson, Theodore Le Roy	Elkhorn	C. H.
Jamieson, Arthur Ames	Poynette	Hillcrest
Johnson, Bertha Rose	Madison	905 Church St.
Johnson, Frank Eskil	Rockford, Ill.	1248 Chapin St.
Johnson, Robert L.	Camp Douglas	1213 Chapin St
Jones, David Clarence	Randolph	Montgomerie P'k
Jones, Ethel May	Sparta	S. C.
Kellogg, Douglass Russell	Reedsburg	C. H.
Klesath, Franklin Carl	Dana, Ill.	Montgomerie P'k
Korst, Donald Burch	Janesville	1125 Chapin St.
Lawrie, Arthur George	Lake Geneva	C. H.
Lightner, Frank Wallace	Randolph	Montgomerie P'k
Lipman, Theodore Earl K.	Beloit	136 W. Grand Ave.

McArthur, Glenne Roy	Janesville	424 Prospect St.
McGraw, Harry E.	Soperton	C. H.
McIndoe, Katharyn	Rhinelander	727 Milwaukee Rd.
McInnes, Bessie Croft	Edgerton	E. H.
McKinney, Paul	Clinton	816 E. Grand Ave.
MacLean, Alexander Robert	Beloit	1040 Prairie Ave.
McMillan, William Donald	Aurora, Ill.	745 Milwaukee Rd.
McOwan, Kenneth, Andrew	Yorkville, Ill.	C. H.
Martin, Mildred Victoria	Beloit	538 Broad St
Means, Charles Edward	Vinton, Ia.	624 Church St.
Medberry, Locksley Jerome	Elkhorn	740 Broad St.
Merrill, Clyde Holahan	Chillicothe, Ill.	424 Prospect St.
Merriman, Elizabeth Royce	Beloit	1304 Prairie Ave.
Moniot, Burton Henry	Ottawa, Ill.	C. H.
Morrissey, Frank Dortland	Bagley	Montgomerie P'k
Mulholland, Stanley Clifford	Rochester, Minn.	613 Prairie Ave.
Nelson, Hazel Mildred	Durand, Ill.	S. C.
Nesemeier, Clarence Harvey	Dakota, Ill.	C. H
Nethercut, Donald Warren	Wauwatosa	1248 Chapin St.
Nichols, Lucille	Waupun	925 Bluff St.
Norris, Dorothea	Chicago, Ill.	S. C.
Osborn, Perry Keith	Beloit	678 Milwaukee Rd.
Paige. Hazel May	Beloit	820 Harrison Ave.
Parker, Carolyn Adelaide	Aurora, Ill.	S. C.
Pearsall, Harold William	Batavia, Ill.	1125 Chapin St.
Pember, Aubrey Humphrey	Janesville	1125 Chapin St.
Pfisterer, Carl Thomas	Brodhead	Hillcrest
Phillips, Grover Allyne	Mt. Carroll, Ill	552 Public Ave.
Pike, Mary Elizabeth	Beloit	1005 Chapin St.
Place, Royal Harry	Marinette	613 Prairie Ave.
Pradt, Louis Atwater	Wausau	Hillcrest
Prindle, Marshall	Beloit	1036 Harrison Ave.
Ralston, Carl Twin	Caledonia, Ill.	740 Broad St.
Richmond, Lyle Lee	Lacon, Ill.	424 Prospect St.
Riess, Harry John	Jefferson	740 Broad St.
Robb, Carlton Scott	Marengo, Ill.	1125 Chapin St
Roberts, Esther Eunice	Sparta	S. C.
Rosenthal, Abe Louis	Green Bay	C. H.
Rutenbeck, Alvin Elmer	Lost Nation, Ia.	C. H.

Sanwick, Mary Christine	Viroqua	S. C.
Schacht, Herman, Jr.	Racine	C. H.
Schultz, Martin Charles	Bartlett, Ill.	745 Milwaukee Rd.
Sellers, Vinnie	Cherokee, Ia.	S. C.
Shearer, Lloyd James	Steward, Ill.	740 Broad St.
Shedd, Henry Wentworth	Evanston, Ill.	1248 Chapin St.
Sleep, LeRoy William	Waukesha	745 Milwaukee Rd.
Smith, Earl Eugene	Princeton	Montgomerie P'k
Spinner, E. Allen	Menominee Falls	
Sprague, Philip Tripp	Lockport, Ill.	831 Park Ave.
Stokes, Charles Rooker	Beloit	317 St. Lawrence Ave.
Stookey, George Chapman	LaGrange, Ill.	C. H.
Strand, Talma	Beloit	620 Portland Ave.
Sutherland, Frank Everett	Janesville	1125 Chapin St.
Swanzey, Ruth Ellen	Ridott, Ill.	S. C.
Tear, James De Graff	Warren, Ill.	C. H.
Thomas, Helene Stratman	Dodgeville	937 Bluff St.
Todd, James, Jr.	Chicago, Ill.	613 Prairie Ave.
Torgrim, Willard	Decorah, Ia.	424 Prospect St.
Tracy, Laura May	Merrill	S. C.
Treat, Alice Esther	Alexandria, Minn.	S. C.
Turner, Wells Eugene	Wausau	726 Milwaukee Rd.
Walsh, Edward	Lake Geneva	C. H.
Ward, Frank Harold	Waukesha	745 Milwaukee Rd.
Weigley, Horace Card	Chicago, Ill.	839 Church St.
Weirick, Margaret Marie	Beloit	211 St. Lawrence Ave.
Wendels, Carl Henry	Green Bay	C. H
Wendels, Henry Schuette	Green Bay	563 Broad St.
West, Walter Aaron	Elkhorn	C. H.
Wilcox, Grace Eleanor	Elroy	E. H.
Wilford, Lewellyn Gammon	Beloit	730 Harrison Ave.
Williams, Clarence Charles	Milwaukee	745 Milwaukee Rd.
Woolley, Zelma Margaret	Streator, Ill.	S. C
Wright, Robert W.	Libertyville, Ill.	746 Broad St.
Young, William Bruce	Stanton, Neb.	747 Harrison Ave.
Zimmerman, Irene	Beloit	817 Bluff St.

Freshmen—152

SUMMARY

Graduate	1
Seniors	52
Juniors	75
Sophomores	107
Freshmen	152
Total	387

DISTRIBUTION OF STUDENTS BY STATES.

Colorado	1
District of Columbia	1
Illinois	107
Indiana	3
Iowa	21
Massachusetts	4
Michigan	3
Minnesota	16
Missouri	2
Nebraska	1
Ohio	2
Pennsylvania	1
South Dakota	7
Tennessee	1
Washington	1
Wisconsin	216
Total	387

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1914

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Beloit, Wisconsin

Corporate Name

The corporate name of Beloit College for use in all wills, bequests and gifts is "THE BOARD OF TRUSTEES OF BELOIT COLLEGE".

Correspondence

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2. Information regarding admission, accrediting of schools, certificates and examination.
3. Accommodations in dormitories.
4. Extension lectures.

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OF

The Beloit College Bulletin

Entered December 16, 1902, at the Postoffice in Beloit, Wisconsin, as Second-Class Matter, Under Act of Congress of July 16, 1894.

BELOIT, WISCONSIN
March, 1914.

CALENDAR

1913

JULY

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1914

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1915

JANUARY

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College Calendar

1913

September 23, Tuesday	Examinations for Admission Registration of Freshmen, 9:00 A. M. to 4:00 P. M.
September 24, Wednesday	Registration of Upper Classes, 9:00 A. M. to 4:00 P. M. First Semester begins: Convocation 4:30 P. M.
October 7, Tuesday	Meeting of the Board of Trustees
October 14, Tuesday	Big Hill Day
November 26, Wednesday	Recitations close, 12:00 M.

THANKSGIVING RECESS

November 28, Friday	Recess closes, 12:00 M. Registration, 1:00 to 3:00 P. M.
December 24, Wednesday	Winter Recess begins, 12:00 M.

1914

WINTER RECESS

January 7, Wednesday	Winter Recess closes, 1:30 P. M. Registration, 1:00 to 3:00 P. M.
January 13, Tuesday	Day of Prayer for Colleges
January 20, Tuesday	Meeting of the Board of Trustees
January 28, Wednesday	Election of Studies for Second Semester.
February 11, Wednesday	First Semester closes, 12:00 M. Second Semester begins: Registration 1:30 to 6:00 P .M.
February 20, Friday	Matriculation
March 27, Friday	Spring Recess begins, 12:00 M.

SPRING RECESS

April 7, Tuesday	Spring Recess closes, 1:30 P. M. Registration, 1:00 to 3:00 P. M.
April 20, Tuesday	Meeting of the Board of Trustees
May 27, Wednesday	Election of Studies for First Semester, 1914-1915
May 30, Saturday	Memorial Day
June 8, Monday	Essays in competition for prizes due
June 18, Thursday	Final Chapel Exercises
June 21, Sunday	Address before the Christian Associations 10:30 A. M. Baccalaureate Sermon, 5:00 P. M.

June 22, Monday	Rice Extemporaneous Speaking
June 23, Tuesday	Alumni Luncheon, 12:30 P. M. Class Day Exercises
June 24, Wednesday	Commencement Day Graduation Exercises, 9:00 A. M. Corporation Dinner, 12:30 P. M.

SUMMER VACATION

September 22, Tuesday	Examinations for Admission Registration of Freshmen, 9:00 A. M. to 4:00 P. M.
September 23, Wednesday	Registration of Upper Classes, 9:00 A. M. to 4:00 P. M. First Semester begins: Convocation 4:30 P. M.
October	Big Hill Day
October 20, Tuesday	Meeting of the Board of Trustees
November 25, Wednesday	Recitations close, 12:00 M.

THANKSGIVING RECESS

November 27, Friday	Recess closes, 1:30 P. M. Registration, 1:00 to 3:00 P. M.
December 23, Wednesday	Winter Recess begins, 12:00 M.

WINTER RECESS

1915

January 6, Wednesday	Winter Recess closes, 1:30 P. M. Registration, 1:00 to 3:00 P. M.
February 10, Wednesday	First Semester closes, 12:00 M. Second Semester begins: Registration, 1:30 to 6:00 P. M.
February 19, Friday	Matriculation

NOTE:—For students who are conditioned or who have work to make up, examinations are held during the spring recess and the summer vacation. These examinations, for which a schedule is posted two weeks in advance, begin on the first Friday afternoon of the spring recess and the final Monday afternoon of the summer vacation. All who have work to make up must present themselves at the hours scheduled.

Trustees

Rev. EDWARD D. EATON, D.D., LL.D *President*	Beloit
NATHANIEL C. SEARS, LL.D *First Vice President*	Chicago, Ill.
EDWARD P. SALMON, M.A *Second Vice President*	Beloit

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ACTIVE

Term Expires June, 1914

GEORGE D. BARNARD, Esq	St. Louis, Mo.
THOMAS C. CHAMBERLIN, LL.D., SC.D	Chicago, Ill.
Rev. EDWARD D. EATON, D.D., LL.D	Beloit
FRANK G. LOGAN, Esq	Chicago, Ill.
ALLEN P. LOVEJOY, B.A	Janesville
FREDERIC F. NORCROSS, B.A	Chicago, Ill.
*HENRY S. OSBORNE, B.A	Chicago, Ill.
CHARLES B. SCOVILLE, Esq	Pasadena, Calif.
CHARLES B. STOWELL, Esq	Hudson, Mich.
HORACE WHITE, LL.D	New York City

Term Expires June, 1915

HENRY W. AUSTIN, B.A	Oak Park, Ill.
WILLIAM B. HALE, M.A	Chicago, Ill.
NELSON P. HULST, PH.D	Milwaukee

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* Died Feb. 5, 1914.

ALEXANDER E. MATHESON, M.A.	Janesville
JOHN R. MONTGOMERY, B.A.	Chicago, Ill.
JAMES H. MOORE, Esq.	Chicago, Ill.
CHARLES H. MORSE, Jr., M.E.	Chicago, Ill.
NATHANIEL C. SEARS, LL.D.	Chicago, Ill.
CHARLES R. SMITH, B.S.	Menasha
JOHN E. WILDER, B.S.	Evanston, Ill.

Term Expires June, 1916

EDWARD P. BACON, Esq.	Milwaukee
LEONARD HILLIS, Esq.	Peoria, Ill.
CLARENCE S. PELLET, B.A.	Chicago, Ill.
PHILO F. PETTIBONE, M.A.	Chicago, Ill.
EDWARD H. PITKIN, Esq.	Oak Park, Ill.
CHARLES B. SALMON, M.A.	Beloit
EDWARD P. SALMON, M.A.	Beloit
WILLIAM SPOONER, Esq.	Oak Park, Ill.
WALTER A. STRONG, B.A.	Chicago, Ill.
Rt. Rev. WM. WALTER WEBB, S.T.D.	Milwaukee

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J. H. Moore
C. H. Morse, Jr.
E. P. Salmon
C. B. Salmon

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F. F. Norcross
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P. F. Pettibone
C. B. Salmon
E. P. Salmon
C. B. Scoville
N. C. Sears
C. R. Smith
Wm. Spooner
C. B. Stowell
W. A. Strong
W. W. Webb
Horace White
J. E. Wilder

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C. S. Pellet, *Chairman*

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E. P. Salmon
W. A. Strong
J. E. Wilder

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F. G. Logan, *Chairman*

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W. B. Hale
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C. S. Pellet
E. H. Pitkin
C. B. Scoville

E. B. Kilbourn, Beloit.........*Secretary and Treasurer*
William Spooner, Oak Park, Ill................*Auditor*

Faculty

EDWARD DWIGHT EATON, D.D., LL.D., *President on the D. K. Pearsons Foundation.* 846 College St.

GEORGE LUCIUS COLLIE, PH.D., LL.D., *Dean and Professor of Geology, on the Alumni Foundation.* Hillcrest

WILLIAM PORTER, D.D., *Brinsmade Professor of Latin, Emeritus; on the Carnegie Foundation.* 735 College St.

THOMAS ALEXANDER SMITH, PH.D., *Hale Professor of Mathematics and Physics, Emeritus; on the Carnegie Foundation.*

*ERASTUS GILBERT SMITH, PH.D., *Professor of Chemistry, on the Charlotte M. Fiske Foundation.* 649 Harrison Ave.

ALMON WHITNEY BURR, M.A., B.D., *Professor of Pedagogy.* 742 Church St.

CALVIN WASSON PEARSON, PH.D., *Professor of the German Language and Literature, Emeritus; on the Carnegie Foundation.* Wallingford, Penn.

THEODORE LYMAN WRIGHT, M.A., LITT.D., *Thomas W. Williams Professor of Greek Literature and Art.* 839 Church St.

HIRAM DELOS DENSMORE, M.A., *Cornelia Bailey Williams Professor of Botany.* 718 Clary St.

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* Absent during second semester.

†Robert Coit Chapin, ph.d., *Horace White Professor of Economics and Finance.*

Forest Emberson Calland, m.a., *Professor of Latin Literature.*
949 Church St.

Robert Kimball Richardson, ph.d., *Professor of History.*
829 Church St.

William Albert Hamilton, ph.d., *Professor of Mathematics.*
805 Church St.

*Henry William Dubee, m.a., *Harwood Professor of German.*
Chapin Hall

John Pitt Deane, b.a., b.d., *Professor of Biblical Literature.*
742 Church St.

Royal Brunson Way, ph.d., *Professor of Political Science and American History.*
718 Church St.

Charles Aaron Culver, ph.d., *Professor of Physics.*
747 Park Ave.

Karl Tinsley Waugh, ph.d., *Squier Professor of Psychology and Philosophy.*
1256 Emerson St.

John Edwin Wells, m.l., m.a., *Professor of English Literature, on the Rufus H. Sage Foundation.*
911 Park Ave.

Beverly Waugh Kunkel, ph.d., *Professor of Zoology.*
731 Park Ave.

Charles Edmund Young, ph.d., *Professor of Romance Languages.*
Hillcrest

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† Died September 12, 1913.

* Absent during first semester.

George Carpenter Clancy, M.A., *Professor of Rhetoric, on the Root Foundation.* Hillcrest

John Forsyth Crawford, B.D., PH.D., *Professor of Philosophy.* 726 Milwaukee Road

Anna Pearl Cooper, M.A., *Dean of Women.* Emerson Hall

Andrew Friedly McLeod, PH.D., *Associate Professor of Physical Chemistry.* 719 Harrison Ave.

†Arthur Elliott Suffern, M.A., *Associate Professor of Economics and Finance.*

Dana McKean Evans, *Director of the Gymnasium and Assistant Professor of Physical Training, on the James A. Brewster Foundation.* 949 Park Ave.

Clayton DeLisle Crawford, LL.B., *Assistant Professor of Public Speaking, on the Knapp Foundation.* 1010 Prairie Ave.

James Taylor Sleeper, B.A., *Assistant Professor of Music.* Hillcrest

*Edward Arthur Fath, PH.D., *Assistant Professor of Astronomy and Director of the Observatory, on the Edward Ely Foundation.* Hillcrest

Helen Brace Emerson, *Curator of the Art Collections.* 810 College St.

Iva Marion Butlin, M.A., *Instructor in Library Science.* 715 Church St.

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† Begins duties September, 1914.

* Resigned Jan. 20 to accept presidency of Redfield College.

Frederick James Menger, Jr., m.a., *Instructor in German.*
721 Park Ave.

August John Walter Horst, m.a., *Instructor in French and German.*
1105 Laurence Ave.

Homer Samuel Myers, m.a., *Instructor in Mathematics.*
Chapin Hall

Marion Hawthorne Hedges, m.a., *Instructor in English Literature.*
705 Park Ave.

Lloyd Vernor Ballard, m.a., *Instructor in Economics.*
929 Harrison Ave.

Mary Edith Cutler, b.a., *Director of the Women's Gymnasium and Instructor in Physical Training.*
Emerson Hall

Charles Darwin Rosa, b.a., ll.b., *Lecturer on Commercial Law.*
1122 Nelson Ave.

Ira Maynard Buell, m.a., *Instructor in Archaeology.*
741 Harrison Ave.

John Alden Riner, b.s., *Assistant in Chemistry.*
929 Harrison Ave.

Arthur Merton Chickering, ph.b., *Laboratory Assistant in Biology.*
1141 Harrison Ave.

Mary Louise Sawyer, b.s., *Laboratory Assistant in Biology.*
724 Clary St.

Harvard Exchange Professor

CLIFFORD HERSCHEL MOORE, PH.D., *Professor of Latin in Harvard University.* Cambridge, Mass.

Lecturer

RALPH HENRY HESS, PH.D., Assistant Professor of Political Economy, University of Wisconsin, *Lecturer on Economics and Finance, and Lecturer on the Schneider Foundation.* Madison, Wis.

Committees of the Faculty

On Accredited Schools and Entrance: Professors DENSMORE, CALLAND, HAMILTON, WAY.

On Administration: The PRESIDENT, the DEAN, the DEAN OF WOMEN, the RECORDER, the REGISTRAR, the SECRETARY OF THE FACULTY, Professor CALLAND.

On Buildings and Grounds: Professor YOUNG, the DEAN OF WOMEN, Professors CULVER, HAMILTON, WRIGHT.

On Catalogues and Bulletins: Professors SMITH, WAUGH, CLANCY, WELLS.

On Courses of Study: Professors WELLS, CULVER, DENSMORE, DUBEE.

On Delinquencies: The DEAN, the DEAN OF WOMEN, Professors DENSMORE, SMITH, Mr. MENGER.

On Faculty Meetings: Professors CALLAND, C. D. CRAWFORD, KUNKEL, WAUGH.

On Fraternities: The DEAN, the REGISTRAR, the SECRETARY OF THE FACULTY.

On Graduate Study: Professors WAUGH, WAY, Mr. HORST.

On Gymnasiums and Health: Professors KUNKEL, EVANS, WAUGH, Miss CUTLER.

On the Library: Professors DEANE, RICHARDSON, SMITH, WELLS.

On Positions for Graduates: Professors BURR, CALLAND, WAY.

On Press: Professors CLANCY, CULVER, YOUNG, Mr. HEDGES.

On Promotion of Scholarship: Profesosrs BURR, DUBEE, RICHARDSON, SMITH.

On Public Occasions: Professors SMITH, CULVER, MCLEOD, SLEEPER.

On Religious Life: Professors CULVER, J. F. CRAWFORD, KUNKEL, RICHARDSON, WRIGHT.

On Rules: Professors WAY, J. F. CRAWFORD, WRIGHT, the DEAN OF WOMEN.

On Schedules: Professors RICHARDSON, DEANE, HAMILTON, Mr. MYERS.

On Scholarships: Professors DENSMORE, BURR, WRIGHT.

Members of Athletic Board of Control: Professors HAMILTON, EVANS, YOUNG, Mr. LIGHT.

Members of Board of Control of Archæan Union: Professors SMITH, CLANCY.

Members of Interscholastic Board: Professors MCLEOD, C. D. CRAWFORD, EVANS, Mr. LIGHT.

Advisers of Musical Organizations: Professors SLEEPER, DEANE, DUBEE, WAUGH.

On Regulation of Student Activities: The DEAN, Professor RICHARDSON.

Student Advisers

For the Class of 1916: Professor BURR, Chairman; Professors CALLAND, CLANCY, CULVER, DEANE, HAMILTON, MCLEOD, RICHARDSON, SMITH, WELLS, WRIGHT.

For the Class of 1917: Professor SMITH, Chairman; Professors BURR, CLANCY, C. D. CRAWFORD, DENSMORE, HAMILTON, KUNKEL, SLEEPER, WAUGH, WAY, YOUNG.

Officers of Administration

Edward Dwight Eaton, D.D., LL.D., 846 College St.
President.

George Lucius Collie, Ph.D. Hillcrest
Dean.

Anna Pearl Cooper, M.A. Emerson Hall
Dean of Women.

Hiram Delos Densmore, M.A. 718 Clary St.
Registrar.

Erastus Gilbert Smith, Ph.D. 649 Harrison Ave.
Recorder.

Theodore Lyman Wright, Litt.D. 839 Church St.
Secretary of the Faculty.

Edward Bela Kilbourn, B.A. 633 College St.
Treasurer.

John Pitt Deane, B.A., B.D. 722 Church St.
Librarian.

*William Albert Hamilton 805 Church St.
Deputy Recorder.

James Taylor Sleeper, B.A. Hillcrest
Organist and Choirmaster.

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* During second semester, 1913-14.

HELEN BRACE EMERSON *Curator of the Art Collections.*	810 College St.
IVA MARION BUTLIN, M.A. *Associate Librarian.*	715 Church St.
DANA MCKEAN EVANS *Director of Athletics.*	949 Park Ave.
IRA MAYNARD BUELL, M.A. *Curator Logan Museums.*	741 Harrison Ave.
EDWARDS BENNETT BROWN, B.A., M.D. *College Physician.*	710 Park Ave.
EDWARD HAROLD LIGHT, B.A. *General Secretary.*	945 Park Ave.
SARAH ELIZABETH GREGORY *Head of Junior House.*	Junior House
MRS. R. C. BEDFORD *Head of Stowell Cottage.*	Stowell Cottage
CORA COOPER CROSS *Matron of Emerson Hall.*	Emerson Hall
MRS. L. D. HILLHOUSE *Matron of Chapin Hall.*	Chapin Hall
JOHN BARVELL PFEFFER *Head Janitor.*	729 Chapin St.
JOHN ALLEN ELLINGSON *Superintendent of Buildings and Grounds.*	Campus

Assistants

M. Belle Alexander 1225 Chapin St.
Treasurer's Assistant.

Edith G. Kull Edgean Flats
Registrar's Assistant.

Lloyd Vernor Ballard, M.A. 929 Harrison Ave.
Assistant in Library.

Mabel C. Huschka, B.S. 633 College St.
Recorder's Assistant.

Grace Lyman, B.A. 747 Park Ave.
Assistant in Art Hall.

Verena Kunz 400 Euclid Ave.
Registrar's Assistant.

Office Hours

The President — President's rooms, Library, 9:00 to 10:00 A. M. except Saturday.

The Dean — Dean's office, Middle College, 4:30 to 5:30 P. M., except Saturday.

The Dean of Women—Emerson Hall, 12:45 to 1:15 daily.
Library, 10:05 to 11:00 Monday, Wednesday and Friday.

The Registrar — Registrar's office, Middle College, 4:00 to 4:30 P. M., except Saturday.

The Recorder — Recorder's office, Middle College, 9:30 to 10:30 A. M., except Saturday.

The Treasurer—Middle College, 9:00 to 12:00 A. M., and 1:30 to 4:30 P. M., except Saturday afternoon.

The General Secretary and Employment Bureau—Middle College, 8:30 to 12:00 A. M., and 1:30 to 5:00 P. M.

Origin and Development

AS early as 1843 there was some discussion of the need and possibility of a college for the new region opened to settlement by the Black Hawk war in the Northwest Territory. In June, 1844, a general convention of Congregational and Presbyterian churches in the Northwest was held at Cleveland, Ohio, at which education received much attention. Returning delegates decided to call a convention in Beloit in August, 1844, to plan for the location of institutions for Wisconsin, Illinois, and Iowa. Three more conventions were held—all in Beloit, for it was felt from the outset that Beloit was the most favorable place for a college in Wisconsin. The first meeting of the trustees was held October 23rd, 1845.

The charter of the college, approved by the Governor of the Territory of Wisconsin, February 2nd, 1846, is as follows:

Be it enacted by the Council and House of Representatives of the Territory of Wisconsin:

SECTION 1. (That) Rev'ds A. Kent, D. Clary, S. Peet, F. Bascom, C. Waterbury, J. D. Stevens, A. L. Chapin, R. M. Pearson, Messrs. G. W. Hickox, A. Raymond, C. M. Goodsell, E. W. Potter, L. G. Fisher, W. Talcott, Charles S. Hampstead, and Samuel Hinman and their successors be, and they are hereby created, a body politic and corporated to be styled THE BOARD OF TRUSTEES OF BELOIT COLLEGE, and by that name to remain in perpetual succession, with full power to sue and be sued, plead and be impleaded, to acquire, hold, and convey property, real and personal; to have and use a common seal, to alter and renew the same at pleasure; to make and alter, from time to time, such by-laws as they may deem necessary for the government of said institution, its officers and servants: *Provided*, such by-laws are not inconsistent with the constitution and by-laws of the United States or of this Territory; also to have power to confer on those whom they may deem worthy, all such honors and degrees as are usually conferred in like institutions.

SECTION 2. That the said College be located in the township of Beloit, Rock County, and shall be erected on a plan sufficiently extensive to afford instruction in the liberal arts and sciences; and the trustees may, as their ability shall increase, and the interests of the country require, erect any or all of the different departments for the study of the liberal professions, in such locations as may be most feasible, in the town of Beloit.

SECTION 3. That the board of trustees shall have power to appoint a president, vice-president, treasurer and such agents as they may deem necessary, and shall fill all vacancies that may occur in their own board, by (expiration of term), resignation, death or neglect for more than one year to attend to the duties of the trustee; also, to prescribe and direct the course of studies to be pursued in the institution and its departments.

SECTION 4. That the board of trustees shall consist of sixteen members, with power to increase their number to twenty-four; and (any) seven of whom shall constitute a quorum for the transaction of business. Said board of trustees shall hold their first annual meeting in the township of Beloit, on the fourteenth day of April, 1846, and afterwards they shall meet on their own adjournments; but in cases of emergency the president, with the concurrence of two trustees, may call a special meeting, or any five members may call such meeting by giving notice to such (each) member at least ten days before the time of such meeting.

SECTION 5. That the board of trustees shall faithfully apply all funds by them collected or received, according to their best judgment, in erecting suitable buildings, supporting the necessary officers, instructors and servants, in procuring books and apparatus, necessary to the success of the institution; *Provided, nevertheless*, That in case any donation or bequest be made for particular purposes, which accord with the designs of the institution, and the corporation shall receive and accept the same, every donation or bequest thus made shall be applied in conformity to the conditions or designs expressed by the donor.

SECTION 6. That the treasurer of the institution shall always, and all other agents when required, before entering upon the duties of their appointments, give bond for the security of the corporation, and of the public, in such penal sums, and with such sureties as the board of trustees shall approve.

SECTION 7. That no religious tenets or opinions shall be requisite to entitle any person to be admitted as a student in said college, and no such tenets or opinions shall be required as a qualification for any professor, tutor, or teacher of said college, and no student of said college shall be required to attend religious worship in any particular denomination.

SECTION 8. The Legislature shall have full power to alter, amend or repeal this act at any time, without any judicial investigation, and vested rights to the contrary notwithstanding.

Approved, February 2, 1846.

Subsequent amendments have increased the number of Trustees to thirty, divided into three classes, each of which serves three years, nine of whom should constitute a quorum; and have removed the requirement that all departments of the college be located in Beloit.

Middle College, the first college building, was begun in the autumn of 1846. The first Freshman class began work November 4th, 1847, under the instruction of Mr. S. T. Merrill, reciting in the basement of the old stone church and later in a private house. Professor J. J. Bushnell came in April and Professor Joseph Emerson in May, 1848; Professor William Porter in September, 1852; Professor J. J. Blaisdell in September, 1859. Rev. Aaron L. Chapin was elected president, November 21st, 1849, and was inaugurated July 24th, 1850. On his resignation of the presidency, June 29th, 1886, Rev. Edward D. Eaton was elected his successor, and was inaugurated November 4th, 1886. December 31st, 1905, President Eaton resigned his position, on account of impaired strength, but was reinaugurated, after a period of rest, on March 4th, 1908.

Little by little the funds of the college have been enlarged; new buildings have been erected to meet its growing needs; and the number of students and teachers has more than kept pace with the increase in equipment. Since the first class, consisting of three men, was graduated in 1851, there has been no break in the succession of graduating classes. Until 1874, only a classical course was offered; in that year a philosophical course was added and was discontinued in 1900; the science course was introduced in 1892. The Chapel building, dedicated in 1892, gave an appropriate centre for the religious life of the college. Women were admitted to the college classes in September, 1895, and were first graduated in 1898. In 1898 also, Emerson Hall was completed to provide accommodations for the young women. The opening of the Smith Gymnasium in 1904, and of the Carnegie Library in 1905, mark further steps in the equipment of the institution for its expanding life.

Since the institution was founded, over six thousand young men and young women have been enrolled as students in its classes, of whom 1,307 have been graduated.

The founders and most active early friends of Beloit College were chiefly Congregationalists and Presbyterians; but it has always had warm support from many branches of the Christian church, and it strives to continue to be non-sectarian. It was established with the conviction that thoroughness in education was as good a thing for the West as for the East, and that a thorough and rounded education must combine learning, morality, and religion.

The strenuous endeavor is made to teach the heart as well as the mind, and to give a personal care that shall reach the individual needs of every student. The lives and the work of its former students constitute the best evidence of its spirit and its success.

Buildings and Equipment

Beloit College is located at Beloit, Wisconsin, near the southern boundary line of the state. Beloit is a thriving city of about fifteen thousand population, situated on the Rock River; it is at the junction of the Chicago and Northwestern and the Chicago, Milwaukee and St. Paul railroads and is in the center of a prosperous farming section. It has several large manufacturing establishments; has ample railroad, postal and telegraph facilities and, while sufficiently large to meet all ordinary requirements for modern life, does not offer the distractions of the great cities.

The college buildings are located on high gravel bluffs east of Rock River, and the dormitories and other buildings are well drained and dry all the year through. The city of Beloit has an enviable record for general healthfulness—a record made possible by its fine water supply, excellent sewer system, the porous soil beneath, and the general elevation above the river level.

GROUNDS.

The college grounds, including the College Campus on which are located most of the College buildings, and the grounds for the women's dormitories to the north of the main campus, comprise about forty acres located on high ground and well covered with trees. The large athletic grounds, known as College Field, are situated half a mile to the east.

The buildings have been named in most cases, for the principal donor of funds for their erection.

MIDDLE COLLEGE.

Middle College, the original college building, the cornerstone of which was laid in 1847, is located in the center of the College Campus. It is a brick building of four stories.

On the first floor are the administrative offices of the Dean, Treasurer, Registrar and Recorder.

On the second and third floors are recitation rooms and on the fourth floor are rooms fitted up for use of the College literary societies.

THE COLLEGE CHAPEL.

The College Chapel, largely the gift of the late Mrs. A. E. Doyon of Madison as a memorial to her mother, Mrs. J. S. Herrick, was erected in 1892, and is wholly devoted to the religious services of the College. It is built of Wauwatosa limestone and is surmounted by a clock tower. On the main floor is the large auditorium capable of seating 500 persons for the daily chapel and the Sunday Vesper services. There are two conference rooms adjoining, which can be opened into the main auditorium, and the President's private room. In the auditorium is a large two-manual pipe organ.

CARNEGIE LIBRARY.

The beautiful library building, given to the College in 1904 by Mr. Andrew Carnegie, occupies a site on the east side of the campus, south of the Chapel. It is of cut Bedford stone and is practically fireproof, the stack-room being wholly so. The building is of the Renaissance style of architecture, 95 by 75 feet, with two stories and basement. On the main floor is the delivery room, adjoining which are the metal stacks, accessible to the students for reference. On either side are reference and periodical rooms, with smaller side rooms for consultation and administrative purposes. In the basement are rooms for receiving and distributing books, for files of newspapers and periodicals, and for storage.

On the second floor are consultation rooms and a large reading room reserved for the use of the Senior class. The President's executive offices are on the second floor on the south side.

The library is open, in charge of attendants, from 7:40 A. M. to 12 M., and from 1:00 to 6:00 and 7:00 to 9:30 P. M., each weekday.

The present number of books is about 50,500 bound volumes and 34,000 pamphlets. Between 2,000 and 2,500 volumes are added each year by gift or purchase. These figures include the United States public documents, for which the library is a depository. The income from the following funds is devoted to the purchase of books:

Academy Library Fund (Pedagogy)	$ 500
Bushnell Fund (Astronomy and Mathematics)	500
Colton Fund (Economics)	5,000
Davis Fund (English Literature)	500
Dunbar Fund (Chemistry)	100
Knowlton Fund (General)	500
Mayher Fund (Chemistry)	1,000
Ryland Fund (General)	4,000
Henry D. Smith Fund (Public Speaking)	1,000
Talcott Fund (Science)	5,150
Total	$18,250

The income from these funds is supplemented by appropriations from the College treasury, large annual gifts by

Mr. Horace White, and occasional gifts from many generous friends of the College.

Particular care is given to enabling the students to use the library to the best advantage. The books are arranged according to the Dewey decimal classification system and catalogued by card-index. All students have free access to the shelves, and may draw books from the library under the usual restrictions. Books that are in constant use by the students in the several classes are placed on reserve shelves where they are equally accessible to all concerned. Poole's Index facilitates the use of the bound periodicals, of which the library contains several thousand volumes. The library is well supplied with the standard works of reference. In the reading-room are the current numbers of the leading literary and scientific journals, with the best of the magazines and weeklies and several dailies. The number of periodicals received is now 235, many of which are the gift of the Archæan Union. The general equipment of the building is such as to make it a convenient and attractive place for study.

A separate departmental library containing many of the books relating to the sciences is kept in Science Hall.

The resources of the Beloit Public Library, which contains about 15,000 volumes, forms a valuable supplement to those of the College Library, especially in the field of fiction and popular literature. They are freely accessible to college students, who make large use of them.

SCOVILLE HALL.

Scoville Hall, the gift of the late James W. Scoville of Oak Park, Ill., was built originally to accommodate the

Beloit College Academy. It is a beautiful brick building with heavy brown-stone trimmings and is located at the extreme southern end of the campus. There are two floors with high roof story and deep basement; on the first floor are three recitation rooms for Public Speaking, Rhetoric, and German, and a comfortable rest room for the young women. On the second floor is the room used by the Music department, as well as a large auditorium seating three hundred, which is used for musical recitals and other college purposes; there is a smaller auditorium adjoining, which can be opened into the larger. A room on the north side of the third floor is used for classes in Astronomy.

The Psychological laboratory occupies the main part of the third floor. Through the gift of the Trustees of the William E. Hale fund, devoted to the advancement of scientific research, the College enjoys the use of considerable apparatus for psychological study. This apparatus includes a Hipp chronoscope, Mosso ergograph, control drop, sphygmograph, pneumograph, Marey tambours, electric time-markers, kymograph and accessories. The above material has been added to by the purchase and manufacture of much material for the study of the senses, all of which is available for demonstration and for elementary practice in the courses in Experimental psychology.

NORTH COLLEGE.

The North College is a three-story brick building with basement. Each of the three floors is used for recitation rooms; the basement has been fitted up recently for the College Center, an institution managed by the students where all college men can come together in a social way.

The rooms are attractively furnished and are supplied with magazines and periodicals.

PEARSONS HALL OF SCIENCE.

The College is indebted to the generosity of Dr. D. K. Pearsons for the noble building for the physical sciences. The edifice is two stories in height, with roof-story and high basement, making substantially four stories. It has an east frontage of 136 feet, with north and south wings extending back 115 feet, and forming the sides of an open court. The inside walls are finished in brick, and slow-burning construction has been used throughout, thus greatly reducing the danger from fire. All the rooms are planned with reference to convenience, ventilation, and light. Gas and water are carried wherever they are needed. On the first floor is an auditorium for lectures and meetings of various sorts, with seats for three hundred persons; this large auditorium is fitted with a permanent projection lantern. A room on the first floor is provided for a mathematics and science library. In this are kept such standard reference books as are likely to be needed in connection with laboratory and class work. The room is also equipped for study and is accessible to students pursuing advanced courses.

The department of Physics occupies four rooms on the first floor and three rooms of the basement on the south side. A lecture room, an apparatus room, a research laboratory, and an office are located on the first floor. A large general laboratory, a dynamo-room and shop, and an optical and photographic dark-room are situated on the basement floor.

The department is thoroughly equipped with modern apparatus for demonstration and experimental use, including electrical and optical instruments of precision.

In conjunction with the department of Astronomy the department of Physics maintains a wireless telegraph time service. By means of this service time signals are sent out daily to educational institutions, newspapers, and a number of commercial firms located within a radius of one hundred miles.

On the first floor a room has been fitted up for Mechanical Drawing and Surveying. It has drawing tables and boards and a filing cabinet, and is lighted with drop incandescent lights . The Surveying outfit contains four engineer's transits, an engineer's compass, a Burt solar compass, a Saegmuller solar compass, Y-level, two Dumpy-levels, plane-table, planimeter, tapes, tape-testing apparatus, stadia-rods, leveling-rods, sextant and horizon, and various minor instruments for field and office work.

A Mathematics room and office are situated on the first floor and a second Mathematics room in the basement. The department is equipped with a stock of the latest models of German and American make for illustrative work in class.

The department of Chemistry is located in the north wing and occupies two floors and the basement. On the first floor are the lecture-room, balance-room, quantitative laboratory, a smaller laboratory, store-room, and the professor's private room.

On the lower floor are a large laboratory for qualitative analysis, a second laboratory for organic and special work a sulfuretted hydrogen room, dark room, and a room for the instructor. In the basement are larger store rooms.

All of the laboratories are fitted with tables and appliances of the best construction. The lower laboratories have recently been refitted at considerable expense and provided with flues exhausted by motor fan; the capacity of the fan is such that the air of the whole lower floor is changed every three minutes. A second electric exhaust fan is placed in the flues leading from the laboratory on the first floor.

The equipment of the department includes lecture apparatus for illustrating special subjects. Also many special pieces of apparatus are provided for the use of students in laboratory work. There are four fine analytical balances and seven suited for the advanced work in General Chemistry. A large stock of chemicals and duplicate apparatus is carried so that each student is well supplied for individual work both in the earlier classes and the later more difficult analytical and research work.

The department of Geology occupies the second and third floors of the south wing. The department is a depository for all maps, documents and specimens issued by the United States Geological Survey. The library is unusually complete and well equipped with reference books needed for advanced study.

There are large collections of rocks and minerals illustrating the different types of structure and texture needed for laboratory purposes. Another large series represents the different geological periods in various parts of the globe. The College owns an exceptionally complete series of fossils, including all that are necessary for a thorough understanding of the past life of the globe. Each period of geological history is well illustrated by the characteristic fossil forms. The department is equipped with a lantern and numerous lantern slides for illustrating different geological features and phenomena.

The departments of Botany and Zoology occupy the second and third floors of the north wing and central portion of Pearsons Hall. The laboratory for general Biology and Zoology is admirably lighted by east and west windows and skylight overhead. The room is adequately equipped to accommodate fifty students at one time; it has a large aquarium table with running water, arranged for keeping living material under normal conditions. In the north wing on the second floor are situated the laboratories for Histology, Embryology, and Plant Morphology. The Plant Morphology laboratory is equipped to accommodate thirty students; the Histology and Embryology laboratory has provision for twenty.

The laboratories for experimental Plant Physiology and Comparative Anatomy of vertebrate animals are located on the third floor. The Plant Physiology laboratory is furnished with a large experimental table accommodating twenty-five students and with soil benches and aquaria for the growth of the living material used in the experimental work. The apparatus for Plant Physiology includes clinostats, auxanometers, glass-ware, chemicals, and other necessary appliances for physiological experiments. The Biology department is equipped with sixty compound microscopes, a projecting lantern, microtomes, wall charts and all necessary apparatus for doing modern work in Botany and Zoology.

SMITH OBSERVATORY.

Smith Observatory, erected by the late Mrs. J. S. Herrick, in memory of her brother, is a separate stone structure. It is well equipped for practical astronomical work, being provided with the following apparatus: Clark equatorial telescope of 9.5 inches aperture, mounted by Warner and Swasey, provided with micrometer, spectroscope, etc.; transit instrument of 2.5 inches aperture; Thomas mean-time clock; Howard sidereal clock; Negus chronometer; Fauth & Co. chronograph, electrically connected with sidereal clock and transit instrument; sextant; levels, etc.

There is a well-selected astronomical library of about 750 volumes containing files of most of the standard American and foreign astronomical journals, as well as the usual standard texts and references. There are also complete outfits for projection work, including more than four hundred lantern slides, among which are the most celebrated views of celestial objects. The observatory will be open to visitors by previous arrangement with the director.

THE SMITH GYMNASIUM.

The Smith Gymnasium for men, which is one of the most attractive buildings on the campus, was erected in 1904-5 as a memorial to the late E. D. Smith of Menasha, Wis. It is built of vitrified brick, and is thoroughly adequate in its proportions and appointments for systematic physical training. The plans for the building were matured after a thorough study of some of the best gymnasium buildings in the country.

In the basement are a base-ball cage, hand-ball courts, rooms for fencing and boxing and space for bowling alleys. On the first floor is the main locker-room, fitted with 200 individual lockers with improved devices. This room is connected with the main bath-room, which is provided with shower and tub-baths and a lavatory. Opening out of this room is a special dressing-room for visiting athletic teams. On the first floor also are the reception and examining rooms and the director's room. On the second floor is the main gymnasium 105 by 51 feet; this is completely fitted with all modern forms of apparatus for heavy gymnastics and special work. There has recently been installed a large amount of new apparatus, including a twine batting cage. On the third floor is a running track and visitors' gallery.

MEMORIAL HALL.

Memorial Hall, built in commemoration of the graduates and students of Beloit College who served in the Civil War, is a high stone structure containing two floors and a basement. The building is covered with a slate roof and is semi-fireproof. On the first floor is the valuable Logan Archæological Museum, systematically arranged; the second floor has been fitted up with new cases to receive the recent large accessions to the collections.

THE ART HALL.

The Art Hall, formerly the College Chapel, is a two-story, cream-colored brick building located south from the Middle College. On the first floor are two rooms: one is devoted to the Fisher collections described more fully under Art Collections; the other contains the Art Library and photographs and is also used by the Curator for purposes of administration. On the second floor are the general collections of art suitably arranged.

THE COLLEGE MUSEUMS

The equipment of the College in illustrative material has always been a distinctive feature. Even when the class work was done in the narrow space of Middle College, place was found for valuable collections of rocks, minerals, fossils and natural history specimens, and the first building of any pretentions was planned to house the library, and the material equipment then called the College Cabinet. This equipment has steadily grown until its treasures fill all available space in the buildings provided for them. They are differentiated into the following museum collections:

THE ART COLLECTIONS

These stand first in their relation to the College, being correlated with its work in language, history, and fine arts.

The College is fortunate in the possession of art collections of unusual richness and variety.

The Fisher Collection of Greek casts is of great value, not only to students of Greek art and life, but for the general culture of the College and the community. It consists of one hundred and twelve casts of unique Greek sculpture, prepared and presented by Mr. Lucius G. Fisher, Jr., in memory of his honored father, long a trustee of the college. Carefully selected by eminent archæologists, and cast in moulds from which these are the first impressions, it furnishes original examples of the progress of Greek sculpture from its first rude beginning to the nobility of the fine Greek art of Phideas, the oriental grace of Praxiteles, and the colossal Roman strength of later days. It occupies the entire lower hall of the Art Gallery, and is a treasure not only unique, but of inestimable value for illustration, instruction, and inspiration. In addition to the Greek casts, there are three hundred pieces of statuary and reliefs, ancient, mediæval, and modern, making a total of over four hundred casts.

Arranged among the general collections are a large number of landscapes and other oil paintings.

Recent additions to the art collections include a portrait gallery of distinguished Alumni painted by eminent artists, and a marble bust of President Edward D. Eaton, chiselled by Lorado Taft. Portraits of Dr. Horace White by Hardie and of Dr. Asher W. Curtis by Nyholm, both of the class of 1853, were added during the past commencement, the sixtieth anniversary of their graduation being thus honored.

The Mary Ripley collection, received in 1912, includes over 2,000 books, many of them limited editions in rare and beautiful bindings, illustrating the history of art in all lands; about 2,000 lantern slides illustrating life in China, India and Ceylon; and upwards of 11,000 photographs, many of them finely colored.

Other engravings and photographs, gathered by Mrs. Emerson, the Curator, representing the art, scenery and literature of all countries, number over 20,000.

The total of over 5,000 volumes and 31,000 photographs equals that of the oldest and largest collections in our country.

It is hoped that other collections will be added to keep up the rapid growth of the Art Museum, which was just twenty-one years old in June, 1913.

THE LOGAN MUSEUM OF ARCHAEOLOGY

The Logan Museum, comprising one of the largest collections of aboriginal artifacts in America, fills all available space in Memorial Hall. These articles, numbering about 100,000 specimens, occupy about 4,000 feet of floor and wall space, 2,400 feet of this being under glass. The material is grouped into fourteen schedules. Of these the flints number between 40,000 and 50,000, including 30,000 arrow points, 5,000 spear points, 5,000 knives and flakes, 2,000 ornamental forms. The ground stone forms number about 4,000; 1,200 grooved axes, 900 celts, 600 special and ornamental forms, 400 hammers and mealing stones, etc. The copper artifacts number 950. Of pottery there are 1,200 pieces, representing Mexican, Californian and Pueblo ware, the work of the Mississippi mound builders, articles from Panama, from Japan, and other places. The utensils of wood, iron, bone, horn and shell are illustrative, while the bead and leather work, basketry, textile fabrics, musical instruments, carvings, ornaments and weapons are very instructive. The most striking displays in this museum are the bead and basketry cases, the plaster casts of Aztec carvings, the Indian busts, the arrow points, axes and mortars.

THE GEOLOGICAL COLLECTION

These collections find place on the second floor of the south wing of Pearsons Hall where about 2,500 feet of floor space is given to this display. About 200,000 specimens are here included. Beginning with the earliest known fossil, the *Eozoon Canadense* of Canadian Laurentian, the representation is complete through all ages and formations to the present. Of Palaeozoic life there is the full range from Potsdam to Carboniferous, from Wisconsin and states adjacent, supplemented by forms from the Appalachian region.

From Mesozoic rocks, we have marine fossils from the

Atlantic coast, brackish water shells from Nebraska and Wyoming, land plants from Colorado and Texas and representative collections of huge Saurian bones from the Great Basin. Cenozoic time is represented by about 150,000 specimens of marine life from California, and about 4,000 specimens of mammals and bird bones from the Brea beds of Los Angeles. These include bones of elephant, giant sloth, bison, giant wolf, saber-tooth tiger and other extinct forms. Foreign geologic life is fully represented by two large collections, the first, of over 500 species, typical forms from each of the geologic horizons, and the second series containing about 300 species of Ammonites showing the development of that order through the full cycle of its life history.

Several unique features are here present, notably sandstone slabs, bearing wavy trails, supposed to be trilobite tracks, about fifty casts of huge orthoceralites, hundreds of specimens of fossil ferns, the complete series of recent marine fossils from California and the complete skeleton forms of the bison, tiger, and giant wolf.

THE MINERALOGICAL COLLECTIONS

These are arranged on the third floor of Pearsons Hall. The oldest collection, brought together, in part, before the College was founded, contained mainly ores and minerals. To this have been added the Nason Collection—thousands of rare specimens of ores, minerals and lithologic specimens, a large amount of local material, furnished by the Wisconsin and Northern Michigan surveys; the Russell collection of minerals, 400 specimens; the Ward Natural History Collection, 200 pieces; the Kuntz Collection, 250 rock species; the U. S. Geological Survey Educational Series, 150 specimens; and a series of rocks and ores from the Lake Superior Iron Range. Supplementing these are three very complete series of foreign crystalline rocks aggregating over 1,000 specimens.

The representation of ores and native metals is very extensive, comprising iron, copper, lead and zinc ores from Superior and the Galena regions, gold, silver, lead and copper ores from the West and very valuable material from Ontario, British Columbia, Mexico, Sweden, Russia and Japan. The larger part of this foreign material was comprised in the national exhibits at the World's Columbian Exposition in Chicago.

Among the most striking illustrative forms are beautiful crystals of calcite, quartz, gypsum and pyrites, huge masses of copper, silver and lead ore, fossil tree trunks from Arizona, basalt columns from the Giant's Causeway, geodes, agates, stalactites and polished sections of marble, onyx and ornamental stone.

THE BIOLOGICAL COLLECTIONS

The Biological Collections of illustrative material are for the present placed in Science Hall. A very large collection of marine shells, corals and echinoids are arranged in wall cases in the corridors. Here on 250 feet of shelf room, behind glass, are over 1,000 species, aggregating over 20,000 specimens. About 500 specimens of mounted birds in large cases stand on gallery platforms on either side of the main biological laboratory and about fifty mounts of fur-bearing forms have place elsewhere. Cases of representative forms of all the classes of animal life are in place in the biologic laboratories for immediate use. Some very valuable series of wax models show successive stages in the embryonic growth of the chick, the frog and the amphioxus, and in aquaria in the main laboratory are growing forms of life so arranged that students may become familiar with the activities of living forms and their relations to their surroundings. This material is designed and arranged primarily for class use. But the College aims to serve the public by making it available for general education. To further this end the Natural History museums are open every day, those in Science Hall in the morning and those in Memorial Hall in the afternoon.

THE PRESIDENT'S HOUSE

The President's House was built by the Trustees in 1910. It is a handsome building of the Colonial style of architecture and is located on college grounds within a block from the campus.

DORMITORIES

CHAPIN HALL

Chapin Hall, the gift of Dr. D. K. Pearsons and named by him in honor of President Chapin, has been in use since September, 1891, and accommodates about fifty-five young men. It has hard-wood floors, furnished reception room, parlor and bath-rooms. The building is heated by steam and lighted by electricity. Each room is furnished with bedstead, spring bed, hair mattress, pillows, bureau with mirror, study table, chairs, bookshelves and window shades. The occupant will furnish bedding, towels, rugs and such conveniences and decorations as may be desired.

The management of Chapin Hall is under the charge of the general secretary of the college. An association composed of all the men of the Hall, both Faculty and students, seeks by social gatherings and athletic activities to promote a spirit of helpful comradeship and to increase the significance of Chapin Hall in the life of the college.

EMERSON HALL

This building, also given by Dr. Pearsons to the College, is a beautiful dormitory for women, named by him Emerson Hall, in honor of Professor Joseph Emerson. The Hall was planned after a careful study of similar buildings elsewhere, and is unsurpassed in comfort, taste, and convenience. There are accommodations for about forty-five women.

The rooms are furnished with study tables, chairs, bookcases, college cots, hair mattresses and pillows, and bureaus with mirrors. Linen, bedding, rugs, and such other conveniences and decorations as may be desired are furnished by the occupants.

The Women's Gymnasium occupies a large, well-ventilated room on the third floor, and is thoroughly equipped with modern apparatus. On the same floor, in connection with the gymnasium, are bath and dressing-rooms.

The building is heated with hot water and lighted throughout with electricity, which all students use. The Dean of Women makes her home in the building.

JUNIOR HOUSE

Junior House furnishes accommodations for about twenty young women of the Junior Class, for whose use the building has been set apart. This opportunity for an independent class life is greatly valued by the young women of the successive classes. The building is heated with hot water and lighted by electricity.

STOWELL COTTAGE

Stowell Cottage, the gift of Mrs. Charles B. Stowell, of Hudson, Mich., has been completely remodelled and its accommodations increased. The rooms have been newly furnished, and a hot-water heating plant has been installed; like all the other dormitories, the Cottage is lighted by electricity.

The building furnishes excellent accommodation for twenty young women of the Freshman Class; it is under the supervision of a competent chaperone.

THE JULIA SALMON COTTAGE

The Julia Salmon Cottage, named in honor of the late Miss Julia Salmon, is a wooden building to the south of the President's House. It has been remodelled and fitted up to accommodate eight young women of the Freshman Class. It also is under the supervision of a competent chaperone who makes her home with the young women.

THE HEATING PLANT.

The heating plant is a brick building located west of the Gymnasium. It contains three large return water tube boilers with down-draft grates, which furnish steam for heating all of the buildings on the campus. The system used is the Paul vacuum system. At present plans are being prepared to enlarge the plant by the installation of electrical apparatus for lighting and power purposes.

COLLEGE FIELD.

During the summer of 1911, the athletic field was enlarged by the addition of a tract of land adjoining it on the east. College Field, a large level piece of ground with fine turf surface, contains a football gridiron and new baseball diamond. It is provided with a well-laid quarter-mile running track, a gift from the class of 1911 and the Trustees. The grandstand and bleachers have a seating capacity of about four hundred.

Administration

REGISTRATION AND ENTRANCE.

On entering college, and at the beginning of each semester, every student is required to register at the hour and place stated in the Calendar. Students not registering at the specified time are required to pay a registration fee of one dollar.

After each vacation recess, registration is counted as the first exercise. Failure to register on time is counted as five ordinary absences.

Students applying for admission to college from any preparatory school must present before registration a certificate of admission, signed by the principal.

Advanced credit will be given by the College for work done in secondary schools only upon examination, unless the school from which the record is presented has been inspected by the Faculty of the College, and its courses approved by them as entitled to such credit. Graduates of normal schools are admitted with advanced credit.

Students entering college from other institutions of collegiate grade, and desiring advanced standing, must present an honorable dismissal, together with full records, from the college or university in which they have studied.

For full details of requirements for entrance to College see under Admission.

ADVISERS.

Each Freshman on entering college is assigned to some member of the Faculty who becomes his adviser during

the first two years of the college course, assisting him in selecting his studies and, in a general way, aiding him in working out the problems of his college life and work. During the last two years, the professor under whom he takes his Major acts as his adviser.

ELECTION OF STUDIES.

Students are required to take at least fifteen hours of work in each semester of the college course. A larger numbers of hours may be elected upon recommendation of the adviser. A student may be permitted by vote of the Faculty to elect less than fifteen hours, for specific cause; but under no circumstances will a student be allowed to take less than twelve hours of work.

The words *Year Course,* appended to the title of a course in this catalogue, indicate that election of the course must be made for the entire year. Such a course may not be dropped at the end of the First Semester except as provided for in the Administrative Rules.

The election of studies for the First Semester by Fresh men and others entering College for the first time will take place on the Tuesday preceding the opening of the College in the fall. The hours will be from 9:00 A. M. to 4:00 P. M.

Except for new students, the regular election of studies for each semester will take place at the times appointed in the College Calendar.

For every change in elections after the above dates a fee is charged; if the change is made before the recitations of the new semester have begun, the fee is fifty cents; after the beginning of recitations it is one dollar.

Before presenting election cards to the Recorder, Freshmen and Sophomores must secure the signature of the class adviser, in approval of their elections. At the spring election in Sophomore year, for the first semester of Junior year, the student must signify his choice of a Major and a Minor, and must secure the signature of the head of the department in which the Major subject is taken, and thereafter all elections must be approved by such Major instructor.

No student will be admitted to classes in any course until his class card, properly signed by the Recorder, has been presented to the instructor in that course.

HOURS, GRADES AND CREDITS

The student's work at Beloit College is estimated in terms of hours and credits. An hour, in this connection, means class-work taken one hour per week for a semester. A credit is a measure of the quality of the work performed.

A certain number of semester-hours of work must be completed each year in order to secure advancement to a higher class. Students will be classified as Freshmen until they have completed twenty-one semester hours; as Sophomores until they have completed fifty-four hours; and as Juniors until they have completed eighty-four hours. One hundred and twenty semester-hours are required for graduation.

A certain number of credits also must be secured before a student can pass from a lower into a higher class. Eight credits are required during Freshman year, eight credits during Sophomore year, ten credits during Junior year and ten credits during Senior year. An average standing of C+ is required for graduation. Failure to secure three-fourths of the required number of credits during any given year of the course prevents the student from passing into the next higher class, except by faculty permission. Failure to secure the ten credits required during Senior year or to have maintained an average of C+ during the course debars the student from graduation.

NOTE: Beginning with the class of 1916, 122 hours and 37 credits will be required for graduation. Of this, 2 hours and 1 credit are for the required gymnasium work in the Freshman and Sophomore years. On this basis, 8½ credits must be secured during the Freshman year and 8½ credits during the Sophomore year. Students will be classified as Freshmen until they have completed 22 semester hours; as Sophomores until they have completed 56 hours; and as Juniors until they have completed 86 hours.

According to the system of grades now in use by the College, AA indicates work of an extraordinary quality; A excellent work; B good work; C fair work; D poor work; F a failure with privilege of re-examination, and FF a failure without such privilege. A grade of FF received in any study during the Freshman or Sophomore year requires repetition of the course, or completion of a course from the same group, the succeeding year.

Credits are estimated as follows: a grade of AA secures one credit for each semester-hour completed; A eight-tenths of a credit; B five-tenths of a credit; C two-tenths of a credit; D passes the student but gives no credit. A plus or a minus accompanying a grade adds or subtracts one-tenth of a credit. It will be seen that in order to maintain an average standing of C+ for graduation it is necessary for the student to receive at least 36 credits on the basis of 120 hours for the course.

EXAMINATIONS AND REPORTS.

Final examinations are given in all courses at the end of each semester. For the Freshman class, in addition to the regular semester examination, mid-semester examinations are held, and reports on the same are sent to the parents. Detailed reports of the standing of Freshmen and Sophomores are sent to their parents at the close of each semester; summary reports stating the total number of hours and credits made by the student during the semester are given out to the Junior and Senior classes as soon as possible after the close of each semester.

REQUIREMENTS FOR GRADUATION.

GRADUATION IN FOUR YEARS

A candidate for the degree of B. A. or B. S. must have completed 120 semester-hours of studies, including 2 hours of Biblical Literature, 4 hours of Rhetoric, a Major of 18 to 24 hours in one department and a Minor of 12 hours from a group other than that in which the Major is taken. In addition he must have maintained an average standing of C+ (36 credits on the basis of 120 hours) and must have fully met the requirements of groups of studies and gymnasium as detailed under The Course of Study.

GRADUATION IN THREE AND ONE-HALF YEARS

A student may complete the college course in three and one-half years by taking eighteen hours of work in each of five semesters. Permission to do this will be conditioned on his maintaining an average grade of B. Written notice of intention to complete the course in three and one half years must be given at the beginning of the third year. On completion of the requisite number of hours the student may, on petition, obtain leave of absence until Commencement, at which time the degree will be conferred.

GRADUATION IN THREE YEARS

A student who presents on entrance to college advanced credits equivalent to twelve semester-hours, may be allowed to take eighteen hours each semester, in order to obtain a degree in three years. Written notice of intention to complete the college course in three years must be given at the beginning of the second year. Permission to take the extra hours, and to graduate in three years, may be withdrawn at any time, if the student's work is not satisfactory.

DEGREES AND HONORS.

The degree of Bachelor of Arts is conferred at graduation upon students whose Major is in Group I or Group II (see Course of Study); the degree of Bachelor of Science upon those whose Major is in Group III.

The degree is conferred *cum laude* upon students who have maintained an average of B+; *magna cum laude* upon those who have maintained an average of A; *summa cum laude* upon those who have maintained an average of A+.

Departmental honors are awarded at graduation to students who have maintained a uniformly high rank throughout their college course and who have, during their Junior and Senior years, attained an A+ grade in twelve hours of work in one department, and presented a satisfactory thesis.

STUDENT CO-OPERATIVE BOARDS.

There are three student co-operative boards acting in an advisory capacity with the administration of the College.

THE STUDENT COUNCIL

The Student Council is composed of sixteen members, six being elected from the Senior class, four from the Junior class, three from the Sophomore class, and three from the Freshman class. The Council meets with the President and Dean of the College on call of the President or members of the Council itself. Questions relating to student welfare are frequently referred to it and recommendations are made to the student body and to the Faculty of the College for action.

THE WOMEN'S STUDENT GOVERNMENT ASSOCIATION

The Women's Student Government Association is made up of the young women of the College. The association is managed by a board of officers elected by the young women, which, under the supervision of the Dean of Women, controls the life of the students in the women's dormitories with all details of its discipline. It may through the Dean of Women refer to the Faculty of the College matters requiring Faculty action.

THE HONOR COMMITTEE

All written examinations and tests are conducted under the Honor System. No officer of the College is present during an examination, but each student is required to write on his paper a pledge that he has neither given nor received any aid during the examination. The administration of the Honor System is in the hands of a student committee. By the constitution of the system it is the duty of every student to report to the committee all evidence of dishonesty in examination that he knows of by observation. If after investigating such evidence the committee finds a student guilty of dishonesty, it reports the case to the Faculty through the Dean, with a recommendation for discipline.

The application of the Honor System has recently been extended to cover the observance of the rules of the College Library.

STUDENT ACTIVITIES.

Participation in student activities is regulated in accordance with a body of Administrative Rules and a Schedule of Points, each originally instituted by co-operative action of the Student Council and of the Faculty. The College aims in this wise to give a share in student activities to more students, to improve the quality of the work done in these activities, and to make it plainly the student's fault if he does not find time to study.

ADMISSION OF WOMEN TO BELOIT COLLEGE.

By action of the Board of Trustees, the number of young women who will be admitted to the College each year is limited to the number which can be accommodated in the women's dormitories. The Trustees and the Faculty believe that the interests of the College and of the young women in attendance are best conserved when the young women are in College dormitories under the immediate supervision of a competent Dean of Women. It is impossible to maintain this supervision when women students are allowed to room in private homes. This limtaton, however, does not apply to those who reside with parents or relatives in the city of Beloit.

The regulation will be strictly adhered to, and no deviation from it will be allowed unless exceptional circumstances seem to warrant the Faculty in suspending the rule in individual cases.

The women's dormitories accommodate about eighty-five students. This enables the College under the new regulation to admit about thirty young women each year into the Freshman class. A deposit of $10.00 must be made for reserving a room. This should be made payable to "Beloit College" and sent to the Registrar when the application is made. This Registration Fee will be refunded if notice is given *before August first* that accommodations applied for are not desired. A special circular giving details as to rooms and board in the dormitories may be had upon application to the Registrar of the College.

General Information

WORSHIP.

There is a united religious service at 8:40 A. M. each week-day, except Saturday, in the College Chapel.

On Sunday afternoon the students are required to attend worship at the College Vesper service in the Chapel. Weekly Y. M. C. A. and Y. W. C. A. meetings and a mid-week College Conference are held; also classes for the study of missions. The attendance of the students is welcomed and their assistance is valued by the churches and Sunday Schools of the city; many have been useful workers in outlying Sunday Schools.

EXTENSION LECTURES.

A majority of the members of the Faculty offer extension lectures upon subjects connected with their departmental work. The subjects selected are not of a technical character, but are of common interest, and have been prepared for high schools and general audiences. Principals of high schools or others who wish lectures are invited to make application to the Registrar of the College, who will send the list of subjects and lectures, and will furnish any other information desired.

A small fee is charged for the lectures, in addition to the expenses of the lecturer.

EXCHANGE PROFESSORSHIPS.

By an arrangement with Harvard University an exchange professor who will offer special courses of lectures, is assigned to Beloit College from year to year. These lectures are given in connection with the College work and will form an integral part of the regular curriculum for the department concerned. In addition the lecturer will offer a course of lectures of a more general character open to all students and friends of the College.

THE PORTER MISSIONARY LECTURES.

A fund has been established in the College, providing for the delivery and publication of lectures upon missions. According to the terms of endowment, "it is desired that these lectures be delivered biennially, upon themes covering the wide range of missionary history or biography, or of the conquests to our larger knowledge of mankind by missionary travel or research, or of the moral triumphs of the Gospel in its appeals to men."

Courses of lectures under the endowment have been given by the following:

1892, April—Rev. Edward A. Lawrence, D. D., Baltimore, Md.

1894, March—Rev. Arthur H. Smith, D. D., '67, Pang Chuang ,China.

1897, May—William Douglas MacKenzie, President Hartford Theological Seminary.

1900, May—Rev. James D. Eaton, D. D., '69, Chihuahua, Mexico.

1901, October—Robert E. Speer, M. A., New York, N. Y.

1904, May—Rev. Charles Cuthbert Hall, D. D., LL. D., Late President Union Theological Seminary.

1907, April—Rev. Lyman Abbott, D. D. LL. D., New York, N. Y.

1907, April—Robert E. Speer, M. A., New York, N. Y.

1909, May—Rev. Arthur Judson Brown, New York, N. Y.

1911, January—Rev. Robert A. Hume, D. D., Ahmednagar, India.

1313, January—Rev. Harlan P. Beach, M. A., Professor of Missions, Yale University, New Haven, Conn.

THE GEORGE GREINER SCHNEIDER LECTURESHIP.

A fund has been provided by Mrs. Marie Greiner to found a lectureship in memory of George Greiner Schneider, a member of the class of 1905. The first three courses of lectures on this foundation were delivered by Rev. David Beaton, M.A., of Chicago. The subject of the first, in March, 1906, was "A Spiritual Interpretation of Life"; that of the second, in February, 1907, "The Scottish Spirit and Its Teachings"; that of the third, in February, 1908, "The West and Its Problems". The fourth was given in March, 1910, by Mr. Hamilton Holt of New York, on the subject, "International Peace"; the fifth was given in November, 1911, by Dr. Caspar Rene Gregory of Leipsig, on "Student Life in German Universities", on "Political and Social Conditions in Germany", and on "The Search for Bblical Manuscripts on Mt. Sinai". The sixth was given November, 1912, by Dr. Eugen Kuehnemann of Breslau, on "Tolstoi" and on "Goethe". The seventh course is given in 1914 by Professor Ralph H. Hess of the University of Wisconsin, on "The Panama Canal" and on "The New Currency Law".

GRADUATE STUDY.

Opportunity for advanced work in certain departments of the College is given to graduates of Beloit College and of other approved institutions; this work may or may not lead to the degree of Master of Arts. It is intended that this degree shall be granted only for advanced liberal study; work of a professional nature will not be accepted for the degree. At least fifteen hours must have been taken under the direction of a member of the Faculty of the College.

Courses may be arranged for by application to the Committee on Graduate Study.

MUSIC.

Music is an important element in the religious, the intellectual, and the social life of the College. The music at the daily chapel service and at the Vesper service on Sunday is led by the College choir, supported by a large two-manual pipe-organ. The College Library contains a valuable collection of musical literature, to which important additions are made each year. In addition to courses described in the course of study, mention should be made of facilities afforded students for the study of music through the chapel choir, the organizations for the practice of oratorio and orchestral music, and the glee clubs. For those sufficiently advanced, opportunity will be given for public performance in concerts and on other occasions where music is introduced.

STUDENT EMPLOYMENT BUREAU.

Beloit College maintains an Employment Bureau to aid students who desire work. The bureau is under the direct supervision of a Faculty committee and is managed by the General Secretary of the College. The management of the bureau is upon a thorough business basis, and it aims to keep in close touch with the leading manufacturing and business firms of the city which give employment to students. A careful canvass of the city for employment is made at the opening of the year, and at such intervals during the year as seem advisable. Students who desire employment may register with the secretary of the bureau, without expense; every effort is made to secure the employment which is best adapted to individual needs.

Beloit is a manufacturing city and its citizens are interested in aiding students who desire employment. For the past three years about 50 per cent of the students at Beloit have secured employment which has enabled them to pay a part or the whole of their expenses. The canvass of the city is made early in the summer, in order that information may be given to students before entering. This information, which is available after the first of July, will be gladly furnished to prospective students on application to the College Registrar.

CAMPUS BOOK STORE.

The Campus book store, in charge of a competent manager, is located in the basement of North College. It furnishes books, stationery, athletic goods and other college requisites to students at reasonable prices.

THE BELOIT CENTER.

The Beloit Center which has been recently established, seeks to promote fellowship and develop and unify the student life of the College. In order that its purposes may be most successfully met, rooms where all students can come together have been provided in North College and fitted up in an attractive manner. The management of the Center is wholly under the direction of the students.

PHI BETA KAPPA.

In June, 1911, the "Beta of Wisconsin" Chapter of the United Chapters of the Phi Beta Kappa society was established at Beloit. The society is made up from those of the highest scholarship in each graduating class; out of the first fifteen per cent of the Senior class as shown by the Recorder's records not more than ten per cent may be elected to the society. A public address is given before the society during commencement week.

LITERARY INTERESTS.

The Archæan Union, an organization of which every student is a member, has general oversight of all the literary interests of the College. These include debating, oratory, the maintenance of a reading room, and the publication of a weekly paper. The Union is supported by a small fee, included among the incidental expenses of each student, and is governed by the student body, with the aid of a Board of Control, in which students form a majority of two-thirds.

There are in the College two voluntary literary societies, the Delian and the Cliosophic, for men, and one, the Aristonian Society, for women, which hold weekly meetings for practice in debate and other literary exercises. Rooms are set apart for their use in Middle College.

The College holds annually three intercollegiate debates: a Freshman triangular debate with Lawrence and Ripon Colleges; a Sophomore debate with Albion College; and a triangular debate open to Juniors and Seniors, with Knox and Cornell Colleges. In addition to these, there is an annual debate for a silver cup, known as the Archæan Cup Debate, between the two men's literary societies.

There is held each year a competitive contest in oratory, known as the Home Contest. The two successful competitors represent the College in the State Oratorical Contest. A similar contest is held for the purpose of selecting the representatives in the State Peace Oratorical Contest.

The reading room of the Archæan Union is in the College Library. It is liberally supplied with newspapers and literary periodicals of all classes.

The College weekly paper, The Round Table, is now in its sixtieth year; it offers an excellent opportunity for training in journalistic work, which is open to all students, as the editorial positions are filled by competition.

The Beloit Alumnus is under the editorial management of alumni appointed by the Wisconsin Alumni Association. It is a bi-monthly publication containing news from the alumni and discusses questions of wide college interest.

The English Club is an organization of students for the study of topics connected with English literature. All students of the College are eligible for membership. Ten meetings are held each year. During the year 1913-14 the club is making a study of English comedy; at each meeting a certain act of some play significant in the development of this form of drama is presented informally.

A Civic Club, a Philosophical Club, and a Chemistry Club are maintained by the students in the departments concerned.

The Shakespeare Society devotes itself to the study and representation of the plays of Shakespeare. Its membership is open, on a competitive basis, to all women students; three-fourths of the members are chosen for excellence in acting, as shown in a contest held early in the year; the other fourth are appointed for excellence in the work of the course in Shakespeare. The Society gives an out-of-door performance of one of Shakespeare's plays in the spring of each year; the play presented in 1913 was "The Tempest".

COLLEGE PHYSICIAN.

Appointment is made by the College of a physician, who shall aid the Physical Director in conserving the health of the students, and from whom all excuses from College exercises or gymnasium work on account of illness must be procured. Every student of the College is entitled to consult the physician once in each case of illness and receive advice or a prescription without charge beyond the fee of fifty cents charged with each semester bill. Should further medical attendance be desired, it is at the option of the student either to employ another physician or the College physician and be subject to physician's customary charges.

PHYSICAL EDUCATION.

A physical examination is given all students upon entering college. All students in the Freshman and Sophomore classes are required to take three hours a week of physical training. This is carried on under the supervision of the director, and must be completed before the beginning of the Junior year.

Men's classes are held in Smith gymnasium from 3:30 to

4:30 daily; also from 4:30 to 5:30 on Mondays, Wednesdays and Fridays. Special classes in wrestling are held on Mondays, Wednesdays, and Fridays, from 5:30 to 6:00 P. M.

The regular classes for women students are held in the gymnasium of Emerson Hall. There are also classes in æsthetic and folk-dancing, open especially to Juniors and Seniors. Each student, at the beginning of her Freshman year, and again at the end, is given a physical examination. A third examination is made at the end of the Sophomore year. The aim of the department is to raise the standard of health by toning up all the bodily functions, and developing and strengthening the muscles. The gymnastic curriculum includes free exercises, light and heavy apparatus work, drills of various kinds and games.

A course in elementary physiology and hygiene, in connection with the gymnasium work, is required of all Freshmen.

ATHLETICS.

An athletic fee of seven dollars is included among the incidental expenses collected from each student. In consideration of this, there is issued to each student a season ticket, admitting him free of charge to all home athletic contests held by the College.

All field and track athletics are under the immediate personal charge of the Director of the Gymnasium and Athletics.

The athletic organizations of the College are managed by the Athletic Board of Control, a board made up from the alumni, faculty, and students, securing to all athletic matters the highest efficiency combined with the greatest economy.

EXPENSES.

REGULAR COLLEGE DUES

Uniform for all students except those occupying the Women's Dormitories. (Which see below.)

Tuition, per semester	$25.00
Incidental Fee, per semester	12.50
All incidental fees except the laboratory fees and graduation fee as noted below.	
Physician's Fee, per semester	.50
Athletic Fee, per semester	3.50
This fee paid by all students gives admission to all home athletic events held under the management of the Beloit College Athletic Association.	
Total per semester	$41.50

SCIENCE LABORATORY FEES

Charged to cover the cost of materials used, are in addition to above regular dues, and vary according to the courses elected, as follows:

Astronomy, per semester	$1.50
Biology, per semester	3.50
Botany, per semester	3.50
Chemistry, per semester	5.00
Experimental Psychology, per semester	2.00
Geology, per semester	1.50
Mechanical Drawing, per semester	1.50
Physics, per semester	4.00
Surveying, per semester	1.50
Zoology, per semester	3.50

GRADUATION FEE

A fee of $9.00, payable by all Seniors, is charged in the second semester bill. This includes the cost of the diploma for the bachelor's degree.

CHARGES FOR WOMEN OCCUPYING DORMITORIES

The regular fixed charge uniform for all women in dormitories is $327.00 for the college year; one-half ($163.50) being payable in advance at the beginning of each semester. This charge covers tuition, board, and room rent, including light and heat; also the incidental and athletic fees. The science laboratory fees, the graduation fee, and the medical fee are extra.

Rooms in the women's dormitories are assigned early in June, students already in attendance having preference. After that time rooms will be assigned in order of application by the Registrar, to whom all correspondence in regard to rooms should be addressed. A deposit of $10.00 must be made when rooms are reserved. This amount will apply toward payment of bills in the fall, or will be returned if the Registrar is notified *before August first* that the applicant desires to cancel her reservation.

CHAPIN HALL RENTALS

Rent for rooms in the men's dormitory, Chapin Hall, is $54.00 per occupant for the year; one-half ($27.00) is payable in advance at the beginning of each semester. This rental includes both heat and light.

In choice of rooms preference is given to previous occupants of the building in order of application, except that an occupant of any room may retain the room if he so desires, unless he is excluded for cause. After the close of the college year all applications, whether from previous occupants or others, will take their turn as received. All reservations, to be valid, must be accompanied by a payment of $5.00. This amount will be applied upon the rental at the opening of the semester. Notice of withdrawal of reservation must be given to the Registrar before September 1st; otherwise, if the room is not taken by the person making the reservation, the fee is forfeited.

Correspondence as to accommodations should be addressed as early as possible to the General Secretary, Beloit College, Wisconsin.

PAYMENT OF COLLEGE BILLS

All of the above dues are to be paid at the Treasurer's office in Middle College. In order to avoid confusion, and for the convenience of all concerned, *first* semester payments are to be made by *Freshmen* on *Tuesday*, the *Registration Day for Freshmen.* Members of the other classes must see that their bills are paid or provided for within one week from the opening day of each semester. *Additional charges* will accrue if bills are allowed to run unprovided for beyond that time.

REFUNDING OF BILLS PAID

Absence for imperative reasons and for a period of more than *one-third of a semester* will be considered the only sufficient ground for refunding a portion of bills already paid; this rebate will be made according to certain rules made by the Board of Trustees, upon an order signed by the Dean.

SCHOLARSHIPS AND BENEFICIARY FUNDS.

The College has at its disposal funds aggregating more than one hundred thousand dollars, the income from which is for the aid of those who are unable to pursue a college course without assistance. Some of these funds have been donated under particular conditions; others are not so restricted. A limited number of students who are needy receive aid from the College in amounts varying from $10 to $25 per semester. In awarding the income from these funds preference is given to students of high character and good scholarship, who are earning at least a portion of their own support, whose habits are economical and who have no delinquency in any subject. The aid is promised for only one semester, but is usually continued for the year provided the required conditions as to scholarship and conduct are maintained.

Applications for scholarships must be made in advance for *each semester.* Students who become members of college fraternities are not usually granted scholarships since it is felt that those who can afford the luxury of fraternity life do not need college aid.

Application blanks for scholarship aid can be obtained from the Registrar and students desirous of this help should apply for them as early as possible, and after filling them out in detail, should return them promptly to the Registrar.

The following are the funds from which awards are made:

THE BACON FUND, $35,000, established by Edward P. Bason, Esq., of Milwaukee, the income of which is divided into seven fellowships; four in the College, and three for graduates pursuing a course of theological study. One young man from each Freshman class is appointed to receive the benefit of a Bacon Fellowship, the selection being from among those who are especially dependent on their own exertions in securing an education, and are maintaining an excellent record in scholarship. At the close of the Senior year one is similarly chosen to receive a fellowship for a theological course.

THE EMERSON FUND, $24,832.63, bequeathed by Rev. Joseph Emerson of Andover, Massachusetts, for the assistance of students preparing for the ministry.

THE MCCONNELL FUND, $20,844.92, bequeathed by Mr. Charles D. McConnell, '98, of Richmond, Illinois.

THE DODGE FUND, $9,000, bequeathed by Mr. Rufus Dodge of Beaver Dam, for aiding young women in their higher education.

THE ELISHA D. SMITH FUND, $7,000, founded by Mr. Elisha D. Smith of Menasha.

THE EDUCATION FUND, $4,000, for the assistance of students preparing for the ministry.

THE BURR FUND, $3,500, originally the Academy Endowment Fund, but transferred to the College and named in honor of A. W. Burr, for twenty-three years Principal of the Academy.

THE CHANDLER FUND, $1,000, bequeathed by the Honorable W. H. Chandler of Burke.

THE BULLOCK MEMORIAL FUND, $1,000, given by Mrs. Bullock to found the M. G. Bullock Memorial Scholarship; the income from the above sum to be given annually to a student interested in applied science.

THE UNIVERSITY OF WISCONSIN offers annually a scholarship of $225 to one of the graduates of Beloit for graduate study at the University of Wisconsin; the incumbent is required to devote a portion of his time to assistance in the work of some department with which he is familiar.

PRIZES

THE LEWIS PRIZE

The Lewis Prize was founded by Governor James T. Lewis, and is offered for excellence in special work in German.

THE ORVIS AND ROWNTREE PRIZES

The class of 1901 has given the sum of $1,000, the income from which is used annually for three prizes offered to the Freshman Class for excellence in Public Speaking. The prizes are in memory of two members of the class of 1901, Roger D. Orvis and Mabel Rowntree. Not more than six young men selected from the Freshman Class compete for these prizes at an exercise held during Commencement week.

THE RICE PRIZE

The Rice Prize of $30.00 is offered to the Junior class for excellence and improvement in extemporaneous speaking. An elective course (Public Speaking 7-8) is offered in this subject, and the prize is awarded at a contest during Commencement week among six speakers chosen for the excellence of their record during the year.

THE MISSIONARY PRIZE

A prize of $20.00 has been established by a graduate of the College, a foreign missionary; it is offered in alternate years for the best essay on some subject connected with missions, and for the highest excellence in an examination upon Greek or Latin not read in the regular college course.

In 1913-14 the prize will be awarded for the best essay on one of the following subjects:

1. Industrial Missions in Africa.
2. Christian Missions in New China.
3. Mass Movements Toward Christianity in India.
4. A Century of Missions in Burma.

THE LOGAN PRIZE

The F. G. Logan & Co. Prize, for the year 1913-14, will be divided into two parts. $25.00 is offered for the best archæological collection presented to the Logan Museum. The collection must be delivered to the Curator of the Museum on or before June 1st. $25.00 will be given for the best essay on Mound Groups about Beloit, to be accompanied by a map of the groups described. This essay must be handed in on June 1st.

THE HAY PRIZE

The Hay Prize in American Citizenship was founded in memory of Henry Hay of the class of 1894. This prize of $40.00 is offered to any member of the Senior class for the best essay on a subject pertaining to American Citizenship. The essays are to be from 3,000 to 5,000 words in length, to be accompanied by lists of books and articles consulted, and all citations to be referred to their proper source. Three type-written copies must be submitted for transmission to the judges by June 1st. The award will be made on the basis of both form and substance. The subjects for the present year are:

1. Rural Credit.
2. Methods and Purposes of Railway Valuation (emphasis to be placed on the physical valuation).
3. What training, whether resulting from a college course of study, from extra curricular activities or from both, would in your judgment best fit an undergraduate in an American college to undertake upon graduation the duties of citizenship?
4. Elimination of Middleman—How far can it be carried?

THE FINE ARTS PRIZE

A prize of $25.000, the income from a fund of $500.00, given by a lady who witholds her name, is offered annually for the best essay on a subject connected with the Fine Arts. The essays are to be from 3,000 to 5,000 words in length, and are to be handed in on June 1st.

The subjects for The Fine Arts Prize Essays for 1913-14 are:

1. Moorish Architecture as illustrated in the Alhambra and the Mosque of Cordova, Spain.
2. The Evolution of Drapery as illustrated in the Fisher Collection in the College Art Hall.

3. The Public Art Buildings and Collections in the United States.
4. Decorative Art in Cover Designs on Books and Periodicals.

THE HORACE WHITE PRIZE

A prize of $50.00 is offered by Horace White, LL.D., '53, for special excellence in Latin during the Sophomore year.

THE JACKSON J. BUSHNELL PRIZE

A prize of $50.00 has been founded by S. Morgan Bushnell, '88, in memory of his father, Professor Jackson J. Bushnell. It is awarded annually for excellence in the mathematical work of the Freshman and Sophomore years.

THE ELIZABETH MC MOLLEN PRIZE

By the will of Miss Agnes J. McMollen, of Oregon, Ill., a sum of money has been bequeathed to the College to be known as the "Elizabeth McMollen Memorial Fund", in memory of the sister of the testatrix. The income amounting to $40.00 will be awarded annually as a prize to the student presenting the best thesis in some phase of Christian Citizenship.

The subjects for the McMollen Prize for 1913-14 are:

1. The Judicial Review of Administrative Decisions.
2. Practical Methods of Race Elevation.
3. The City Manager Plan.

THE GEORGE MIDDLEBROOK PRIZES

To stimulate interest in Public Speaking six prizes are offered by Mr. George Middlebrook, of New York City, aggregating $100.00 in amount; a first, a second, and a third prize in Oratory of $25.00, $15.00 and $10.00 respectively, and three prizes of like amounts in Debating.

Admission

Graduates from a high school or academy course (see page 74, Accredited Schools) covering a period of four years are admitted to the Freshman class of the College on presentation of fifteen units of preparatory work, as indicated below. A unit is the equivalent of five recitations per week in a study for one school year. Half-units will be accepted only when presented in addition to whole units in the same subject, or when presented in subjects as closely allied as Botany and Zoology, or as Civics and Economics. The two units of Foreign Language required in group A below must be offered in a single language.

All applicants for admission are required to present fifteen units distributed as follows:

A. With Foreign Language.

I. *Required* of all students, nine units as follows:

Rhetoric	1
English Literature	2
History	1
Mathematics	2
Science (Laboratory Science)	1
Foreign Language	2
Total	9

II. Four units are *required,* six are *allowed,* from the following:

English Literature	½—1
History	1—2
Economics, Civics	½—1
Mathematics	½—1
Science	1—3

III. Two units are *allowed* from the following:

Manual Training	1—2
Domestic Science	1—2
Book-keeping	1
Stenography and Typewriting	1
Commercial Law	½

Requirements for graduation for students entering under A:

1. 120 Semester-hours including 18 hours of foreign language for students presenting 2 units of foreign language.
2. 120 Semester-hours and 12 hours of foreign language for students presenting 4 units of foreign language.

B. Without Foreign Language.

A student who does not present foreign language for entrance, is admitted on presentation of the following:

1. 15 units, including 7 units from A I and 5 units from A II above.
2. A statement from a principal or superintendent that the applicant ranked in the upper half of the class in which he or she prepared for college.

Requirements for graduation for students entering under B:

1. 128 Semester-hours including 20 hours of foreign language.

While applicants for admission must present the requisite number of units taken from those stated above, the College would prefer the following election therefrom as on the whole best preparing the student to carry on its work:

Foreign Language 4 units, English Literature 2 units, Rhetoric 1 unit, History 2 units, Mathematics 2 units, Science 2 units, and optional 2 units.

REQUIREMENTS BY DEPARTMENTS

Botany. The course presented for entrance in Botany should include the elements of plant structure and physiology, and the life history of types of plants representative of the great plant groups. The work on plant structure and physiology should comprise studies of the root, stem and leaves of the higher plants. The laboratory and field work should occupy about two-thirds of the time given to the course.

Chemistry. Students offering Chemistry as an entrance-unit in Science should have had a thorough course in General Chemistry, with laboratory work. The course should include both the non-metals and the metals. It is not expected that qualitative analysis will have been taken up.

Civics. A unit in Civics may be made up of a year's course in Civics, in Civics and Economics, or in Civics and the History of the United States.

English. The requirement in English has two branches, Rhetoric and English Literature. The study of English should be continuous throughout the four years of the high school course. The importance of the study is fundamental; but it should not be made a substitute for other subjects requisite for breadth of training.

A. Rhetoric. One unit of Rhetoric is required of all candidates for admission to College; but it is hoped that much more than one-fourth of the high-school course in English will be devoted to work in composition, either as a separate study or in connection with the work in literature. A student whose first month's work in Rhetoric 1 shows serious deficiency in spelling, punctuation, grammar or sentence-structure will be required to take additional work to make up the deficiency, and will be excluded from matriculation until such work is satisfactorily completed.

B. English Literature. One unit of English Literature is required of all candidates for admission to College; candidates for entrance to the Freshman course (English Literature 1), must present two units. A third will be accepted in some cases, from schools of exceptional strength.

The course in High School preparation should include work of two kinds, **a** and **b**.

a. The student should be caused to study carefully the works assigned by the Conference on Uniform Entrance

Requirements in English for 1912-1915. These works are Shakespeare's *Macbeth*; Milton's *Comus*, *L'Allegro*, and *Il Penseroso*. Either Burke's *Speech on Conciliation with America* or both Washington's *Farewell Address* and Webster's *First Bunker Hill Oration*; and either Macaulay's *Life of Johnson* or Carlyle's *Essay on Burns*. Proper study of works of equivalent merit and fitness will be accepted.

b. The student should also read more rapidly a considerable selection of other pieces of English literature. These should be chosen from the list and should accord in number and kind with the grouping, suggested for such work by the Conference on Uniform Entrance Requirements in English.

It is desirable that the student who presents three units for entrance to College have some knowledge of the history of English Literature; this will best be taught in connection with the work of the third and fourth years. It should not prejudice unduly the careful completion of the other work. A text-book may be used for this work, but a simple outline, given as a background and accompaniment to chronological readings from the literature, is preferable. In all of the preparation, study of works themselves, rather than study about the works, should be the chief object.

German. Two units of German are required for entrance, including preparation in Punctuation, Grammar (Joynes-Meissner or Thomas) and the following Readings: *Glueck Auf* (Mueller and Wenckebach), Storm's *Immensee*, Gerstaecker's *Germelshausen*, *Novelletten-Bibliothek, Vol. 1* (Bernhardt), Schiller's *Wilhelm Tell*, or equivalents.

Applicants should be able to take part with reasonable correctness in a simple German conversation, and to put simple English sentences into German.

Greek. Two units are required of all students who expect to enter the regular Freshman course (3) in Homer.

The two required units include: Elementary Greek, in some Beginner's Book, Goodwin's or Hadley-Allen's *Greek Grammar*, four books of Xenophon's *Anabasis*, two books of Homer's *Iliad* or *Odyssey*, and forty lessons in Prose Composition.

History. Any three of the following units will be accepted in History. Texts are mentioned simply to indicate the general scope of the work, and with the understanding that the courses include collateral reading and careful attention to geography.

a. Ancient History. Texts: West's *Ancient History*, Wolfson's *Essentials in Ancient History*, Morey's Histories of *Rome* and *Greece*, Myers' *Ancient History*, revised edition, Shepherd's Atlas, Classical Atlases.

b. Mediæval and Modern, or Mediæval and English History. Texts: Bourne's *Mediaeval and Modern History*, Robinson and Beard's *Outlines of European History*, Munro's *Mediaeval History*, Coman and Kendall's *History of England for Schools*, Shepherd's Atlas.

d. American History. Texts: Channing, McLaughlin, James & Sanford, Muzzy, and Hart's *Essentials*. A year's course of high school work must be offered.

Latin. Four units are required of all students who expect to pursue work in Freshman Latin; but any student presenting three units,—two of which must represent the work of courses **a** and **b**, and the third, the work of either course **c** or course **d**, as indicated below,—may with the consent of the instructor be admitted on trial to the Freshman work.

The four units cover the following:

a. Elementary Latin book, with Grammar and easy readings.

b. Four books of Cæsar, or two books of Cæsar and the equivalent of two additional books.

c. Six orations of Cicero, including the *Manilian Law*.

d. Six books of Virgil's *Aeneid*.

Practice in Latin Composition is required in connection with works of Cæsar and Cicero.

Mathematics. Two units are required of all candidates for admission to College, as follows:

a. Algebra, a year's work, including mastery of the subjects treated in such a book as Wells' *Essentials of Algebra*, through the theory of Quadratic Equations.

b. Plane Geometry, a year's work, Wentworth's *New Plane Geometry* with the exercises, or an equivalent; or Plane and Solid Geometry, a year's work.

A student may present for entrance, as a third unit of Mathematics, a half-year of Algebra beyond Quadratics, together with a half-year of Solid and Spherical Geometry. Either of these studies will be accepted as a half-unit.

Physics. Students presenting Physics as an entrance-unit should include in their preparation both text-book and laboratory work. The text-books of Millikan and Gale, Carhart and Chute, or Hoadley are recommended.

Physical Geography. Students who present Physical Geography as one of the entrance-units should have completed a course in a standard text-book in Physical Geography, preference being given to Davis, Tarr, Gilbert and Brigham, or Salisbury. Work in Meteorology is not required, but a knowledge of the chief topographic forms and ability to interpret topographic maps are necessary, and an elementary knowledge of field methods is desirable.

Physiology. The work in Physiology presented as an entrance-unit should include the study of a standard modern text-book equivalent to Martin's *The Human Body*, preceded by general work in Botany and Zoology.

Zoology. The course presented in Zoology should consist mainly of laboratory and field work on the common animals found in the vicinity of the student's home, with careful records and drawings well arranged. A good text-book, such as Linville and Kelly's *Zoology*, should be used as a basis for the work.

ACCREDITED SCHOOLS

Students are admitted upon certificates from the following classes of preparatory schools:

1. Schools accredited by the North Central Association of Colleges and Secondary Schools, of which Beloit College is a charter-member.

2. Schools accredited as a result of personal inspection and approved by the Faculty of Beloit College.

3. Schools in Wisconsin and neighboring states which have been accredited by Universities and Colleges of recognized standing. Students from such accredited schools are accepted upon certificate, provided that their preparatory course meets with the conditions of entrance detailed above.

ADMISSION FROM ACCREDITED SCHOOLS

Graduates of all schools accredited by Beloit College are admitted to the Freshman class without examination, when properly recommended by the principal or superintendent of schools. Graduates of distant schools of established reputation, but not accredited by the College, may be admitted upon presentation of certificates properly signed, and their approval by the Registrar.

Blank certificates for the recommendation of pupils will be furnished upon application to the Registrar of the College. Applicants for admission are expected to forward to the Registrar such certificates, properly filled out and signed by the principal or superintendent of schools, before the opening of the First Semester.

ENROLLMENT

Applicants for admission must present satisfactory testimonials of good moral character.

All candidates for admission to the College, whether by examination or certificate, must present themselves for enrollment at 9:00 A. M. on Tuesday, Sept. 22nd, 1914. Entrance examinations will be held at 2:00 P. M. on that day in Pearsons Hall.

All students enter the College provisionally for one semester. At the close of this period those approved by the Faculty are formally matriculated by the President and come into full standing as members of the institution.

Each student must be a member of one of the four regular College classes, and must carry at least twelve hours of class-work. Students in special studies are not received.

ADVANCED STANDING

If the student applying for entrance to College can present more than the fifteen units required, he may be granted advanced standing in the extra studies presented. either by examination or on recommendation of the head of the department in which advanced credits are sought, or as the result of inspection and acceptance by the College of the work in the secondary school in which the courses were taken; but not more than one unit, in addition to the fifteen required, will be accepted for work done in a regular four-year course of study in a secondary school. For advanced credit in science, laboratory notebooks must be presented.

Students who have taken part of the college course in other institutions of approved rank are admitted to advanced standing on the basis of satisfactory credentials of character and scholarship.

ADVANCED STANDING FROM NORMAL SCHOOLS

1. Graduates from the present Latin and German courses of the State Normal Schools in Wisconsin, who

have selected courses of college grade during the Normal course, are granted full Junior rank (60 semester-hours) at Beloit College.

2. Graduates of State Normal Schools who have not met the above requirements are given a proportionate amount of credit, which must be determined in individual cases upon the submission of records to the Registrar of the College. Graduates from State Normal Schools in other states are accepted on the same basis as students from Normal Schools in Wisconsin.

3. The requirements for the B. A. and for the B. S. degree as laid down in this catalogue must be fully met for graduation.

The Course of Study

The departments of instruction are arranged in three groups, viz:—

I. Language, Literature and Art.
II. Philosophy, the Social Sciences and History.
III. Mathematics and the Sciences.

The Bachelor's degree is conferred upon those students who have satisfactorily completed 120 semester hours of study, including a Major and a Minor, with the required number of credits (see Hours, Grades and Credits, page 44, Requirements for Graduation, page 46, and Admission, page 68.) Students whose Major is in Group I or Group II receive on completing the course the degree of Bachelor of Arts; those whose Major is in Group III, the degree of Bachelor of Science.

A Major consists of not less than 18 or more than 24 semester-hours made up of courses offered in one department or in allied departments as specified under the detailed statements of the several departments; at least six hours of the Major must have been completed during the Freshman or the Sophomore year and twelve hours must be taken in consecutive courses designated as Major Courses during the Junior and Senior years. For further details regarding Major requirements see statements under the several departments on pages 84ff.

A Minor consists of 12 semester-hours pursued during the Junior and Senior years and elected from a group other than that in which the Major is taken. The Minor must be made up of consecutive courses offered in one department or in allied departments as indicated in the statement (see page 82) of courses and combinations of courses to meet the requirements for a Minor.

By a semester-hour is meant one recitation, lecture, or laboratory-period per week for one semester of eighteen weeks. Not more than six semester-hours may be taken in any one semester in any one department, and not more than 36 hours in any one department will count toward graduation. Elections for Freshman, Sophomore, and Junior and Senior years must conform to the regulations given on pages 78-81.

For the Bachelor's degree a thesis may be required in the Major subject to count as 2 or 3 semester-hours.

For the degree of Bachelor of Science at least six hours of College German beyond course 1-2, and six hours of College French must be taken.

Where four units of foreign language have been presented for entrance the student must complete 12 hours of foreign language work of College grade; where 2 units have been presented he must complete 18 hours; where no foreign language has been presented he must complete 20 hours.

In addition to the foregoing requirements, each student must take three hours of gymnasium work in each semester of the Freshman and Sophomore years.

Each student, at least two weeks before the election of studies at the end of his Sophomore year, shall select his Major and notify the head of the department concerned. The head of the department in which the Major is chosen becomes the student's adviser for the Junior and Senior years, and all of the student's elections for those years are subject to his approval.

FRESHMAN YEAR

In the Freshman year the student shall satisfactorily complete in each semester Rhetoric, 2 hours; Biblical Literature, 1 hour, and 12 or 13 hours from the elective groups given below. In the selection of these 12 or 13 hours he must take at least 3 hours from each of the groups, and he may not take more than 7 hours from any one group. He may elect either Chemistry or Biology from Group III, but not both studies during Freshman year. He may elect an additional hour in Public Speaking or Music. He is required to take three hours of a laboratory science* for each of two semesters in either the Freshman or the Sophomore year.

GROUP I.

French 1-2	3 hours
German 1-2, 3-4	3 or 4 hours
Greek 1-2, 3-4	3 or 4 hours
Latin 1-2, 3-4	3 or 4 hours

GROUP II.

English Literature 1-2	3 hours
Classic Art and Literature 3-4	3 hours
History 1-2, 15-16	3 hours

GROUP III.

Biology 1-2	3 hours
Chemistry 1-2	3 hours
Mathematics 1-2,1a-2a,1b-2b	3 or 4 hrs

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* The following are accounted laboratory courses for the Freshman and Sophomore years: Astronomy 12, Botany 1-2, Biology 1-2, Chemistry 1-2, 3-4, 7-8 (if three hours be taken), Physics 1-2, Zoology 9.

SOPHOMORE YEAR

In the Sophomore year the student shall satisfactorily complete 15 hours each semester from the studies given in the groups below. Of these 15 hours he must elect at least 3 hours per semester from each of the groups; he may elect not more than 7 hours per semester from any group but Group II; in Group II he may elect 9 hours per semester, provided that at least 6 hours are elected from the following courses: Biblical Literature 11-12, Economics 21-22, English Literature 3-4, History 5, 6, 45, 46, Political Science 1-2, Philosophy 1, Psychology 2, Rhetoric 3, 4, 5. He may elect not more than four hours each semester in any one subject. Freshman studies may be elected in the Sophomore year but subject to the Sophomore requirements regarding group distribution.

GROUP I.

French 3-4	3 hours
German 7-8, 9-10	3 hours
Greek 5-6	3 hours
Italian 1-2	3 hours
Latin 5-6, 7, 9-10	3 hours
Spanish 1-2	3 hours

GROUP II.

Biblical Literature 11-12	3 hours
Economics 21-22	3 hours
English Literature 3-4	3 hours
History 5, 6, 45, 46	3 hours
Music 3-4	3 hours
Political Science 1-2	3 hours
Psychology 2	3 hours
Philosophy 1	3 hours
Public Speaking 5, 6	3 hours
Public Speaking 10, 11	1 hour
Rhetoric 3, 4, 5	3 hours

GROUP III.

Astronomy 1, 2	3 hours
Botany 1-2, 4	3 hours
Chemistry 3-4, 7-8	3 hours
Mathematics 3-4	3 hours
Physics 1-2	4 hours
Zoology 9, 10	3 hours

JUNIOR AND SENIOR YEARS

Every student is required to carry at least 15 hours each semester during the Junior and Senior years. Of these 15 hours, at least 3 hours, and not more than 6 hours, each semester must be taken in the student's Major subject. Further, in making up these 15 hours he must elect at least one course each semester in the Minor subject or subjects, making up for the two years a total of at least 12 hours in the Minor. For definitions of Major and Minor, see page 77; for combinations of courses for a Minor, see page 82.

The studies of the Junior and Senior years are grouped as follows:

GROUP I.

Classic Art and Literature
English Literature
French
German
Greek
Italian
Latin
Public Speaking
Rhetoric
Spanish

GROUP II.

Archæology
Biblical Literature
Economics and Sociology
History
Library Science
Music
Pedagogy
Philosophy
Political Science
Psychology
Religious History

GROUP III.

Astronomy
Biology
Botany
Chemistry
Geology
Mathematics
Physics
Zoology

COMBINATIONS OF COURSES TO SATISFY THE MINOR REQUIREMENT

Satisfactory completion of any one of the following combinations of courses, taken outside of the group that includes the Major, will satisfy the requirements for a Minor.

Classic Art and Literature: 1-2, 3-4.

Astronomy: 1, 2, 12, with Physics 1-2, or Geology 11-12.

Biblical Literature: Any 8 hours in Biblical Literature and Religious History, except 1-2, with two courses from the following: Pedagogy 1-6; Psychology 2.

Botany: Any 12 hours in prescribed sequence.

Chemistry: Any 12 hours except Courses 1-2.

Economics: Any 12 hours in prescribed sequence.

English Literature: Any 12 hours except Courses 1-2.

Geology: 11-12, with either 7-8, or 1-2, or 9-10.

German: Any 12 hours except Courses 1-2, 3-4.

Greek: Any 12 hours.

History: 45, 46, with 7-8 or 21-22; or 7-8 with 21-22; 21-22 with any other 6 hours in American History.

Latin: Any 12 hours except 1-2, 3-4.

Mathematics: Any 12 hours in prescribed sequence except courses 1-2; or 3-4 may be taken with Physics 1-2 or Drafting and Surveying 5-6.

Music: 3-4 with 11-12, 7-8, or 13-14.

Pedagogy: 12 hours of Pedagogy in prescribed sequence; or Psychology 2 with 9 hours of Pedagogy in prescribed sequence. Psychology 10 may be included.

Physics: Any 12 hours in prescribed sequence.

Political Science: Any 12 hours in prescribed sequence; or 1-2, with History 21-22.

Psychology and Philosophy: Psychology 2 with any 9 hours in Psychology or Philosophy. Pedagogy 1 may be included.

Public Speaking: 3-4, 8, 9.

Romance Languages: Any 12 hours except French 1-2.

Zoology: Any 12 hours in prescribed sequence.

Pre-requisites as prescribed in the detailed statements of the several departments of instruction must in all cases be regarded.

Departments of Instruction

ARCHAEOLOGY

MR. BUELL

1-2. Primitive Life. *Year Course.*

Study of the conditions of life of primitive man, his utensils, ornaments and means of defense, and evidences of his progress in art and in the conquest of nature. Full use will be made of the extensive collections in the Logan Museum and through these the student will become familiar with the arrangement and care of museums.

Junior or Senior Year, two hours.

ASTRONOMY

ASSISTANT PROFESSOR FATH

1. Elementary Descriptive Astronomy.

A simple text-book is taken as a basis and read by the class. This is amplified by lectures and illustrated by lantern-slide views and accompanied by a limited amount of observatory work. The course is non-mathematical and is primarily intended to give a culture-view of the subject, and aims to take up those aspects of the science with which every educated person should be acquainted.

First Semester, Sophomore, Junior, or Senior Year, three hours.

2. Modern Astronomy.

A continuation of course 1. The text is supplemented by readings from various sources. The lectures deal especially with the theory of light in its Astronomical applications; the physical theory of the sun; and the condition and development of the nebulæ and the fixed stars.

Second Semester, Sophomore, Junior, or Senior Year, three hours.

5-6. Introduction to Celestial Mechanics. *Year Course.*
Elementary dynamics, including central forces and the problem of two bodies. Computation of orbits.

Junior or Senior Year, three hours. Pre-requisite, Mathematics 5-6. Given when demanded by a sufficient number of students.

10. Navigation and Engineering Astronomy.
A course especially intended to give those portions of Astronomy which are of assistance to the navigator and the civil engineer. The work follows mainly Hayford's *Text Book of Geodetic Astronomy,* with chapters from Bowditch's *Navigator,* illustrated by use of instruments and reduction of observations.

Second Semester, Sophomore, Junior, or Senior Year. Pre-requisites, Astronomy 1 and Mathematics 1. Given when demanded by a sufficient number of students.

12. Practical Astronomy.
The theory and use of the transit instrument and equatorial. Determination of time and use of the micrometer. Introduction to star catalogues.

Second Semester, three hours. Pre-requisites, Astronomy 1 and Mathematics 1.

BIBLICAL LITERATURE

Professor Deane.

It is the aim of this department to put the student into possession of the methods and apparatus of Biblical and religious study and thus to open the way for a permanent interest in the prosecution of these vital themes. While some freedom in the order of election is allowed, it is desirable that courses 11-12 should be covered in the Sophomore Year.

1-2. Biblical Introduction. *Year Course.*

A general introduction to Biblical study, covering in outline the traditional story of the Hebrew race, the rise of the Hebrew sacred literature, the life of Jesus Christ, the development of the New Testament writings, and the history of the transmission of the Bible to our day. The last part of the course is given to a study of selected examples of the different types of literature found in the Bible. Lectures and references.

Freshman Year, one hour. Given annually, and required of all students.

11-12. Old Testament History and Literature.

11. First Semester: the history of the Hebrews down to the division of the kingdom; the origin of the Hebrews and their relation to other Semitic peoples, their early religious and political institutions; character and contents of the historical books.

12. Second Semester: the history and literature of the Divided Kingdom, the Exile, and the Restoration; the rise and development of prophecy; beginnings of Jewish religious institutions and customs.

Sophomore Year, two hours. Elected by the semester. Second semester not given in 1914-15.

5-6. Wisdom Literature and Lyric Poetry.

5. First Semester.

6. Second Semester.

Hebrew Wisdom: its nature and principles as seen in Job, Proverbs and Ecclesiastes; relation to Greek thought; influence upon Christianity. Lyric poetry of the Hebrews; its rise, development and final forms, with a study of representative examples. This course is supplementary to course 11-12 and may best be taken at the same time.

Sophomore Year, one hour. Second semester not given in 1914-15.

7-8. Hebrew. *Year Course.*

The forms and syntax of the Hebrew language; readings in the Old Testament. The course includes a study of the genius of the language in its relation to the contents and permanent value of the Hebrew Scriptures. Students desiring this course should give early notice, as it will not be given every year.

First Semester, three hours; Second Semester, two hours.

10. Teachings of Jesus.

Ruling ideas in the religious and ethical teachings of Jesus, with some reference to the problems of today. The course embraces an account of existing religious conditions in the time of Jesus, and a study of the origin and mutual relations of the four Gospels.

First Semester, Junior or Senior Year, two hours. Given annually.

9. Christian Origins.

A study of the thought and life of the Apostolic Age as presented or reflected in the book of Acts and the Epistles, with special attention to the development of Christian doctrine and the beginnings of Church institutions and customs.

Second Semester, Junior or Senior Year, two hours. Not given in 1914-15.

32. History and Science of Religion.

A study of the religious experiences of various races and of the different periods of individual and race development. Special attention is given to the development of the Hebrew religion and to the relation of Christianity to the other world-religions of today.

Second Semester, Sophomore, Junior or Senior Year, three hours. Not given in 1914-15.

Note.—The attention of students in this department is directed to the courses in New Testament Greek (Greek 13-14), and in Religious Education (Pedagogy 6).

A MAJOR IN RELIGIOUS EDUCATION consists of Biblical Literature 10 and 9, Psychology 2, and Pedagogy 1 and 6. Pre-requisite, Biblical Literature 1-2, 11-12, 5-6.

A MINOR IN RELIGIOUS EDUCATION consists of 12 hours elected as follows: eight hours from Biblical Literature 11-12, 5-6, 10, 9; the remaining hours from Psychology 2, and Pedagogy 1 and 6.

BIOLOGICAL SCIENCES

PROFESSOR DENSMORE, PROFESSOR KUNKEL,
MR. CHICKERING, MISS SAWYER

Biology

PROFESSOR DENSMORE

1. Plant Biology; forms a Year Course with 2.

An introductory course illustrating the general principles of Biological Science from the standpoint of plant life. The main topics treated are: living matter and the cellular organization of plants; the biology of green plants comprising their general structure, physiology, and reproduction; the biology of fungi, yeasts, and bacteria including their relation to fermentation, disease, and decay.

First Semester, three hours. Open to all classes. Given annually. For Freshmen forms a *Year Course* with 2.

PROFESSOR KUNKEL

2. Animal Biology; forms a Year Course with 1.

This course is designed to acquaint the student by means of laboratory exercises, lectures, and quizzes with the more important principles of Biology as exemplified by animals. A number of typical animals are studied carefully with special reference to structure, function, relation to environment, and life history.

Second Semester, three hours. Open to all classes. Given annually.

Botany

PROFESSOR DENSMORE, MR. CHICKERING, MISS SAWYER

Requirements—Biology 1, or an equivalent course is required as a pre-requisite for all courses in Botany. One lecture and six hours of laboratory work are required for all three-hour courses. Other courses require a proportionate amount of time.

COURSES OFFERED ANNUALLY

2. Seed Plants.

   Lectures, field and laboratory work on representative families of seed plants, including analysis and identification of local species. The latter part of the semester is devoted to a comparative study of the main groups of seed plants, cycads, pines, and flowering plants.

   First Semester, three hours. Pre-requisite, Biology 1. Given annually.

6. Plant Physiology.

   Experiments, lectures and recitations on the physiological processes of plants. The laboratory work includes experiments in the physiological laboratory on photosynthesis, migration and storage of foods, respiration, digestion, absorption and movements of water, irritability, and response in plants.

   Second Semester, three hours. Pre-requisite, course 2. Given annually.

4. Classification of Trees.

   A field course designed to acquaint the student with the classification, habits and distribution of the main groups of trees represented in the local flora.

   Second Semester, one hour. Given annually. Open to all students who have had Biology 1.

5. Anatomy.

   The anatomy and histology of seed plants with methods of preparing plant tissues for study, including fixing, mounting and staining. Especial attention is given to the structure of wood and to the growth and anatomy of forest trees.

First Semester, three hours. Pre-requisite, course 2.

COURSES OFFERED IN ALTERNATE YEARS

1. Mosses, Liverworts, and Ferns.

Field work and identification of common species of the above groups, with laboratory work on their morphology and reproduction. Students electing this course will be required to do field work.

Second Semester, two hours. Given in 1914-15, alternating with course 3. Pre-requisite, Biology 1.

3. Algæ and Fungi.

Field studies and laboratory work, on the main groups of Algæ and Fungi. Funguous diseases of trees and of the cultivated plants will be emphasized in this course.

Second Semester, three hours. Offered in 1915-16. Given in alternate years and open to members of the three upper classes who have completed Biology 1.

7. Embryology and Cytology.

General studies in Plant Cytology and Embryology with lectures and readings on cell theories of Reproduction. Heredity and Hybridization applied to plants. In addition each student will be assigned a special problem for independent work upon which reports or a written thesis will be required. Special methods of killing, staining and mounting material for cytological and embryological studies will be given in the course.

Second Semester, three or four hours. Required of all Major students in Botany. Pre-requisites, courses 2 and 5. Offered in 1914-15.

8. Thesis Course.

Special studies with collateral readings and a thesis are offered to Seniors who have taken Major work in Botany.

The topics for study are to be arranged with the instructor. Courses 5 and 7 are usually necessary for this course.

First or Second Semester, Senior Year, three hours.

A MAJOR IN BOTANY consists of courses 2, 6, 4, 5, 7, 1 or 3, and Biology 1. Biology 2 may count for three hours. For consecutive courses consult the instructor.

GENERAL COURSES—Courses 2, 6 and 4, together with the course in Plant Biology are designed to give students a general knowledge of plant life including the form, structure, development and physiology of plants. These courses should be elected by students who desire a brief course in Botany for culture or for teaching Botany in high schools.

SPECIAL COURSES—Recommended as a preparation for special lines of work.

Forestry: Courses 2, 6, 4, 5 and 3.
Agriculture and Horticulture: Courses 2, 6, 4, 3 and 7.
Sanitary Science: Courses 2, 6, and 3.
Teaching: Courses 2, 6, 4, 5, 1, and 3.

Zoology

PROFESSOR KUNKEL, MR. CHICKERING

9. Natural History of the Mammals.

A general introductory course. The cat and the rabbit will be dissected in the laboratory as a basis for the study of human physiology in the second semester. Lectures and readings on the classification, habits, and distribution of the mammals.

First Semester, three hours. Pre-requisite, Biology 2.

10. Physiology.

A course of recitations based upon Huxley's *Lessons in Elementary Physiology* and illustrated by demonstrations.

The general functions of the body are discussed; such as, movement, sensation, digestion, assimilation, secretion, respiration, and circulation. This course is especially recommended for prospective teachers of zoology and physiology and all desiring a general knowledge of the human body.

Second Semester, three hours. Pre-requisite, Biology 2.

2-3. General Zoology.

A laboratory course in which representatives of the various classes of vertebrates and phyla of invertebrates are dissected, in order to give the student a first-hand knowledge of the structure of typical forms. The laboratory work is supplemented by lectures in which the knowledge gained in the laboratory is systematized and correlated, and the significance of the structures is pointed out. Rather more than half the time is devoted to the vertebrates because of their greater importance to prospective medical students, and their more intimate relation to human interests generally.

Junior or Senior Year, three hours. This course may be dropped after the first semester, but no student will be admitted to the course for the second semester alone. Pre-requisite, Biology 2 and Zoology 9. Given in 1915-16 and alternate years.

4. Histology and Histological Technique.

A laboratory course supplemented by lectures and quizzes. The principal varieties of cells occurring in the vertebrate body are studied and practice in the methods of preparation of organs for microscopical study is given. Emphasis is laid upon the cell rather than upon the organ in order to pave the way for the more extensive study of histology in the medical school.

First Semester, three hours. Pre-requisites, Biology 2 and Zoology 9. Given in 1914-15 and alternate years.

5. Embryology.

A laboratory course supplemented by lectures and quizzes. The development of the vertebrates from the germ cells to the mature condition will be studied with special reference to the amphibian and the chick. The history of the germ cells, fertilization, cleavage of the egg and formation of the principal organs will be discussed together with theories of inheritance and development.

Second Semester, three hours. Pre-requisites, Biology 2, Zoology 9, 4. Given in 1914-15 and alternate years.

7. Entomology.

A laboratory and field course supplemented by lectures and quizzes. The work is based on Sanderson and Jackson's *Elementary Entomology*, and aims to acquaint the student with the more important native insects. The student will make a collection of insects, learning to mount and to identify them, and will study their life histories. The more important economic species, especially those destructive to agricultural and forest products, will be studied.

First Semester, three hours. Pre-requisites, Biology 1-2.

A Major in Zoology consists of 21 hours which must include courses 2-3, 4 and 5 in addition to Biology 2, Biology 1 may count for three hours.

General Courses—Zoology 9 and 10 are especially planned for students wishing a general knowledge of the structure and the physiology of the higher animals, and for those planning to teach Physiology in high schools. Zoology 9 is desirable for students planning to enter medical schools.

Special Courses—Recommended as pre-requisite for special kinds of work.

Medicine: Courses 2-3, 4 and 5.

Agriculture: Course 7.

CHEMISTRY

Professor Smith, Associate Professor McLeod,
Mr. Riner

1-2. General Chemistry. *Year Course.*

1. First Semester.
2. Second Semester.

During the first semester, lectures, recitations, and laboratory work with the non-metals. For the second semester, lectures on the metals, with recitations and laboratory work. Three recitations, or laboratory periods, and one lecture weekly.

The class is divided into three sections. One section is known as Advanced General Chemistry to which only those students who have had at least one semester of Elementary Chemistry are admitted. The laboratory work supplements work already done and is largely of a quantitative character.

Freshman Year, three hours. Given annually.

PROFESSOR SMITH

1-2. Advanced General Chemistry. *Year Course.* (See above under General Chemistry.)

5-6. Quantitative Analysis. *Year Course.*

5. First Semester.
6. Second Semester.

The course will include the simpler quantitative determinations and the quantitative analysis of a series of alloys and natural minerals, concluding with analysis of the silicates. Both gravimetric and volumetric methods will be studied.

Junior or Senior Year, three hours. Pre-requisites, courses 1-2 and 3-4.

7-8. Organic Chemistry *Year Course.*

7. First Semester.
8. Second Semester.

A course of lectures on Organic Chemistry. The course may be taken with or without laboratory work on the preparation of a limited number of compounds supplementing the lectures, and illustrating the more common laboratory processes.

Sophomore, Junior, or Senior Year, two or three hours. Pre-requisite, course 1-2. Given annually. The lecture course counts for two hours; when laboratory work is included, three hours. Both courses are required of students electing for pre-medical work.

16. Sanitary Chemistry.

A course in Sanitary Chemistry, in which the study of natural waters, drainage, air, foods, etc., is taken up. The course is given by lectures, laboratory work, and reports on special topics.

Second Semester, Junior or Senior Year, two hours. Pre-requisites, courses 1-2, 3-4 and 7-8. Given in 1915-16, and in alternate years thereafter.

20. Teachers' Course.

A study of methods of teaching Chemistry in the secondary schools. Lectures and discussions.

Second Semester, Junior or Senior Year, one hour. Given in 1914-15. (See under Pedagogy 10.)

30. Thesis.

A special study of some topic, requiring both a reading of its literature and laboratory investigation.

Second Semester, Senior Year, two or three hours. (See below under A Major in Chemistry.)

ASSOCIATE PROFESSOR MCLEOD

3-4. Qualitative Analysis. *Year Course.*

3. First Semester.
4. Second Semester.

A course in qualitative chemical analysis, beginning with the simple reactions of the metals. The latter part of the course will be devoted to the study of the analysis of natural compounds, commercial products, and inorganic preparations. During the second semester a brief course on the use of the blow-pipe is introduced, with special reference to the natural occurrence of the elements and study of the methods of dry analysis.

Sophomore Year, three hours. Pre-requisite, course 1-2. Given annually.

9-10. Physical Chemistry.

Course 9 is essentially a laboratory course dealing with the determination of molecular weights by direct and indirect methods, and of reaction velocities. The theoretical basis of the laboratory work is considered by lectures and discussions.

Course 10 is a lecture course in the modern theories of Chemistry, especially those bearing upon Gases, Thermochemistry, Solutions, the Phase Rule, Ionization, etc. Readings, laboratory work, and discussions.

Junior or Senior Year, three hours. Pre-requisites, Course 1-2 and Physics 1-2. Students should have had Courses 3-4 and 5-6, and Mathematics through Calculus.

18. Electro-Chemistry.

A course in Electro-Chemistry in which the modern theories relating to the subject and their application to the chemical industries and to electro-analysis, will be discussed. Lectures, readings, and laboratory work.

Second Semester, Junior or Senior Year, three hours. Pre-requisites, as under courses 9-10, including also those courses. Given in 1915-16.

12. Applied Chemistry.

An elementary discussion of the application of Chemistry to industry and the arts. The course will be given by lectures and reports on chemical manufactures on the large scale, such as the acid and alkali industries, dyeing and the manufacture of cements, leather, paints, etc.

Second Semester, Junior or Senior Year, two hours. Pre-requisite, course 1-2. Given in 1914-15 and alternate years.

MR. RINER

40. Stoichiometry.

A course in Chemical calculations, designed to render the student familiar with the ordinary problems of General Chemistry. Especially valuable for those who expect to teach Chemistry, or to enter some other branch of science.

Second Semester, one hour. Open to any student who has had Chemistry 1. Required of all students whose Major is in Chemistry.

NOTES. The courses in this department are numbered consecutively, and it is expected that elections will be made following the numbers of the courses as far as possible.

FOR ADVANCED STUDENTS. Students entering from approved secondary schools, and presenting more than the number of units required for admission to college, and having the full equivalent of courses 1-2, may present their records together with their laboratory note-books, and after passing a satisfactory examination they may be accepted for advanced standing for a certain number of hours but without honor credits.

A MAJOR IN CHEMISTRY consists of course 1-2, to be elected during Freshman Year, 3-4 during Sophomore Year, and 12 hours during Junior and Senior years, selected from courses 5, 6, 7, 8, 9, 10, 18, 40.

Where Chemistry is taken as a Major, students are urged to elect Mathematics through Calculus, and to carry at least one course in Chemistry through the Senior year. In addition to the 24 hours thus prescribed for a Major, all students taking honors in Chemistry will be required to elect 2 or 3 hours for a thesis during the second semester of the Senior Year; others may elect such thesis work.

CLASSIC ART AND LITERATURE

Professor Wright

1-2. Classic Art.

1. First Semester: Greek and Roman Art.
2. Second Semester: Renaissance Art.

Courses introductory to the elementary principles underlying all art, as illustrated in the architecture and sculpture of Greece and Rome and in the arts of the Renaissance. The students' work is based upon a laboratory study of the University Prints issued by the Bureau of University Travel. Lectures are illustrated by lantern slides and by the casts of the Fisher collection in the Art Hall.

Junior or Senior Year, three hours; elected by the semester. Given annually.

3-4. Greek Literature.

3. First Semester: Iliad, Odyssey, Lyric Poetry.
4. Second Semester: Greek Drama, Greek Prose.

This course is intended to be fundamental to the understanding of the more modern literatures, so far as they are based upon the form and content of the ancient Classics. The ancient works are studied in the best translations and compared with related forms in other literatures. Lectures are given on important phases of Greek life and Greek composition.

Three hours. Freshman year; elected by the semester. Given annually.

DRAFTING AND SURVEYING

PROFESSOR HAMILTON, ASSISTANT PROFESSOR FATH,
MR. MYERS

ASSISTANT PROFESSOR FATH

1-2. Mechanical Drawing. *Year Course.*

A course in drafting preparatory to machine-designing, architectural drawing, or civil engineering. The course covers simple lettering and dimensioning, isometric, cabinet, and orthographic projection of simple forms, together with elementary shades and shadows, tracing and blue-printing.

Three hours. Pre-requisite, Mathematics 1-2.

26. Drawing and Lettering.

A course which aims to give those parts of drafting which are most useful for the surveyor and civil engineer. Especial attention is paid to plain lettering preparatory to field note work of the surveyor. The simple elements of geometrical drawing, cabinet and orthographic projections are taken up, together with a limited amount of tracing and blue-printing. This course is not recommended for those who contemplate engineering-school work after leaving College; to such students the longer course 1-2, is commended.

Second Semester, Junior or Senior Year, three hours. Pre-requisite, Mathematics 1-2.

MR. MYERS

5-6. Surveying. *Year Course.*

5. First Semester.
6. Second Semester.

The general principles of land and city surveying and the elements of topographical surveying are given, abundantly illustrated by field work and reduction of data.

Junior or Senior Year, two hours. Pre-requisites, Mathematics 1-2, and Drafting and Surveying 1-2; or may be taken in conjunction with course 1-2. Given in 1914-15, and in alternate years.

16. Surveying.

The general principles of land and city surveying, with illustration by field work and reduction of data.

First Semester, Junior or Senior Year, three hours. Pre-requisite, course 1-2. Given when five or more students demand it.

ECONOMICS

ASSOCIATE PROFESSOR SUFFERN, MR. BALLARD

21-22. Economics.

The principles of economics, with some training in the application of these principles in the interpretation of the facts of present-day industry and commerce. Pre-requisite for all other courses in this department. Ely's *Outlines*, revised edition, is used as a text, with assigned readings in other authors. Recitations, lectures, and exercises in the discussion of illustrative problems.

First and Second Semesters, Sophomore, Junior, or Senior Year, three hours. Given annually. A year course, but may be dropped at the end of the first semester.

23. The Labor Problem.

Its relation to the rise of the factory system, evils of child labor, significance of immigration, the sweating system, strikes and boycotts, economic functions of labor organizations, policies of trade unions, conciliation and arbitration. and proposed solutions of the labor problem. The emphasis will be put upon the assigned readings and discussion. Text: Adams and Sumner, *Labor Problems.*

First Semester, Junior or Senior Year, three hours. Pre-requisite, course 21-22. Given in 1914-15 and alternate years.

24. The Trust and Corporation Problem.

Progress of corporation combinations, forms of organization, and policies of typical combinations, government policy in relation to combinations, conflicting theories and proposed solutions. The emphasis will be put upon assigned readings and discussion. Texts: Jenks' *The Trust Problem*; Ripley, *Trusts, Pools, and Corporations*; Stevens, *Industrial Combinations and Trusts.*

Second Semester, Junior or Senior Year, three hours. Pre-requisite, course 21-22. Given in 1914-15 and alternate years.

3. Finance.

Public revenues and expenditures, governmental industries, taxation, the budget, public debts, considered with special reference to the conditions prevailing in the finances of the local, state, and national governments in the United States. Plehn's *Public Finance* is used as a text, together with lectures and topical readings.

First Semester, Junior or Senior Year, three hours. Pre-requisite, course 21-22. Given in 1914-15, and in alternate years.

5. Money and Banking.

The significance, functions, and evolution of money, modern monetary systems, relation of money and credit, requirements of a good monetary system, the function and evolution of banks, bank organization, clearings, elasticity of credit, mobilization of reserves, rediscounting, banking systems, and the significance of the federal reserve system.

First Semester, Junior or Senior Year, three hours. Pre-requisite, course 21-22. Given in 1913-14, and in alternate years.

6. Railroad Transportation.

This course aims to present the economic rather than the technical aspects of transportation, and includes a discussion of the organization, functions, and administration of the railroads of the United States, and their relations to society and government.

Second Semester, Junior or Senior Year, three hours. Pre-requisite, course 21-22. Given in 1913-14 and alternate years.

9. Sociology.

(Psychology 11, Social Psychology, will be substituted for this course for the present.)

10. Social Problems.

(Philosophy 12, Social Ethics, will be substituted for this course for the present.)

12. Socialism.

A study of the works of representative socialistic writers of the Nineteenth Century, their criticisms of the industrial organization of society, their constructive proposals, their practical experiments.

Second Semester, Junior or Senior Year, three hours. Pre-requisite, course 21-22. Given in 1914-15 and alternate years.

MR. BALLARD

25-26. Principles of Accounting. *Year Course.*

A study of the theory and nature of accounts, with a view to their construction and interpretation, and their application to the specific problems of the manager and the accountant. By means of the analyses of various typical balance sheets the student will be introduced to the more general features of accounting for retail and wholesale businesses, partnerships, corporations, charitable and philanthropic agencies, and the government. Text: Cole's *Accounts.*

Junior or Senior Year, two hours. Pre-requisite, course 21-22. Given annually.

27. Business Organization and Methods.

A study of the various business units; their particular functions, and how they are performed; their structure and life history. Text: Haney's *Business Organization and Combination,* with assigned readings in other authorities and official reports.

First Semester, Junior or Senior Year, two hours. Pre-requisite, course 21-22. Given in 1914-15.

28. Economic History of the United States.

This course aims to trace the significant movements in the commercial and industrial development of the country, and to show the manner and extent to which economic forces have determined its history. Some of the topics discussed are: Colonial industry, economic aspects of the Revolution, early commerce and manufacturing, economic aspects of the public land system, the growth of transportation, the localization of industry, development of national resources, the growth of manufactures, the tariff, etc. Lectures with assigned readings, topical reports and discussion.

Second Semester, Junior or Senior Year, two hours. Pre-requisite, course 21-22. Given in 1914-15.

ENGLISH LITERATURE

Professor Wells, Professor Clancy, Dean Cooper.
Mr. Hedges

Pre-requisite for Advanced Courses in English Literature is satisfactory completion of course 1-2. Students who as Freshmen in 1911-12 completed the course Classic Art and Literature 3-4, will be regarded as having satisfied this requirement.

For courses in Rhetoric and Composition, see Rhetoric.

PROFESSOR CLANCY, DEAN COOPER, MR. HEDGES

1-2. Introduction to the Study of Literature.

Year Course.

This is not a survey course or a study of history of

English literature. The work of the year consists in careful study of selected notable pieces of English literature with the following ends in view: (1) to arouse to a realization of the vital worth and interest of literature; (2) to familiarize with the matter and the form of certain representative and influential works; (3) to assist to a notion of the chief characteristics of greater classes of literature. The course will proceed as follows: Drama, Narrative Poetry, Lyrical Poetry, Modern Prose.

Freshman Year, three hours. Given annually. Professor Clancy and Dean Cooper, each one division; Mr. Hedges, two divisions. See head-note.

PROFESSOR WELLS

3-4. Shakespeare.

A close study of about twelve of the plays of Shakespeare, and reading of several additional plays. Open class discussion to bring out dramatic and dramaturgic qualities, with special stress on ethical and universal elements of the works.

First and Second Semesters, three hours. Primarily for Sophomores. Given annually.

5. Old English.

The beginnings of the English language and literature. The grammar of Old English. Readings of selections of Old English prose and verse in the original, and of extensive selections in translation. Lectures in Old English literature and on the history of the language. Knowledge of German or of Latin is necessary for the pursuing of this course.

First Semester, Junior or Senior Year, three hours. Given in 1913-14, and alternate years.

6. Middle English, particularly Chaucer.

A course in Middle English literature, with much attention to the development of the language. A knowledge of Old English is not necessary for this course. Reading of specimens of Middle English literature, portions of Langland and Gower, and all of *The Pearl*. The course centres about Chaucer and aims to give familiarity with all of his principal work and with its spirit as representative of the man and the period.

Second Semester, Junior or Senior Year, three hours.
Given in 1913-14, and alternate years.

9. English Poetry, 1798-1832.

Study of poems of Scott, Byron, Shelley, Keats, Coleridge, and Wordsworth, in an effort to familiarize with the characteristics of the literature of the period, as well as to appreciate the attitudes of the writers to contemporary and universal problems.

Second Semester, Junior or Senior Year, three hours.
Given in 1914-15, and alternate years.

17. Literary Criticism.

For students who wish an advanced general course in study of Literature. Not merely the theory of criticism. The aim of the course is to regard literature and the study of it from a broader and more general point of view than is assumed in more restricted courses. Study of the characteristics of particular types of literature (as Drama, Lyric, Narrative Poem, Novel, Short-Story, etc., and their sub-classes) as exhibited in chosen representative pieces, and of the principles applicable to the types. Hence an attempt is made to formulate general principles for appreciation and judgment of literature.

First Semester, Junior or Senior Year, three hours.
Given in 1914-15.

20. Victorian Prose.

Careful study of the thought of Carlyle, Ruskin, and Arnold, or of other representative writers, as manifested in selected works, with special attention to its bearing on their own day and on the present time. Lectures, discussions, reports.

Second Semester, Junior or Senior Year, three hours. Given in 1915-16, and alternate years.

29. Victorian Poetry, chiefly Tennyson.

Study of the development of the ideal of Tennyson in theory and in practice, and of the growth of his power of expression. Especial consideration is given to his treatment of problems of modern life and thought. Two other Victorian poets will be considered. Lectures, discussions, reports.

First Semester, Junior or Senior Year, three hours. Given in 1913-14, and alternate years.

19. Victorian Poetry, chiefly Robert Browning.

Close study of selected poems by Browning to afford an introduction to the characteristics of the poet's composition, and to acquaint with his conception of art and with his philosophy of life. Two other Victorian poets will be studied. Lectures, discussions, reports.

Second Semester, Junior or Senior Year, three hours. Given in 1913-14, and alternate years.

30. Special Topics.

Detailed study of selected topics or writings, upon which will be held class discussion and consultation with the instructor. Each student will prepare an extended paper on some phase of his own study. Introduction will be given to the principal sources of information as to English language and literature.

Second Semester, Senior Year, three hours. Required of all students majoring in English; open to others only by special permission. Given annually.

34. Contemporary Drama.

Study of general principles of stage-craft; general conditions of dramatic presentation during the next preceding and the present generations; current discussion of Drama: the history, aims and methods of the various groups of contemporary American and European playwrights and producers; significant plays of the more representative dramatists of the groups. Much reading, reports, class discussion.

First Semester, Junior or Senior Year, three hours. Given in 1914-15.

DEAN COOPER

32. English Literature in the Eighteenth Century.

A study of the characteristics of English literature from the Restoration to the death of Burns. After careful consideration of the qualities of the so-called Classical School, the development of the literature (exclusive of the novel) with special emphasis on the manifestation of the romantic spirit, will be studied.

First Semester, Junior or Senior Year, three hours. Given in 1915-16 and alternate years.

26. The English Novel.

A study of the development of the novel, from Addison's *De Coverley Papers* to the novels of Meredith. The structure and elements of the novel. Reading and study of the representative novels of the period. Lectures, reports and class criticisms.

First Semester, Junior or Senior Year, three hours. Given in 1914-15, and alternate years.

21. Teachers' Course.

The course aims to crystallize the student's thoughts on literary topics, to discover something of the nature of specific problems of the teaching of English in secondary schools, to suggest methods of teaching literature and composition in the schools. Practice in presentation of subjects and in theme-reading.

Second Semester, Senior Year, two hours. Given annually. (See Pedagogy 10.)

MR. HEDGES

24-25. American Literature.

Study of work of greater representative nineteenth century writers — Irving, Cooper, Bryant, Emerson, Hawthorne, Whittier, Longfellow, Poe, Holmes, Thoreau, Lowell.

First and Second Semesters, Junior or Senior Year. Given in 1914-15 and alternate years.

23-28. English Literature, 1579-1674.

A study of the literature (exclusive of the drama) from the *Shepherd's Calendar* to the death of Milton. Study of the spirit of the period as manifested in the various forms of literature of the time. In the first semester the work will center about Spenser; in the second semester, about Milton. Discussion and reports.

First and Second Semesters, Junior or Senior Year, three hours. Given in 1915-16 and alternate years.

A MAJOR IN ENGLISH LITERATURE consists of courses 1-2, 3-4, 5 or 6, 17, 30, and one additional three-hour course. Those who expect to teach English should elect the Teachers' Course, 21. The student should take at least a semester of work in advanced Composition, i. e., Rhetoric 3 or 4. He is advised to elect at least twelve hours of History, probably courses 1-2, 7-8; Classic Art and Literature 3-4 and 1-2; Philosophy 5 and 6.

RECOMMENDATION FOR TEACHING ENGLISH in high schools will be given only to students who have completed work equivalent to that necessary to satisfy a Major in English Literature. This applies first to the Class of 1915.

GEOLOGY

Professor Collie, Mr. Buell

PROFESSOR COLLIE

11-12. General Geology.

A beginning course in Geology, in which the study of geologic processes and their results is especially emphasized. Lectures, laboratory work and field excursions.

Junior or Senior Year, three hours. Pre-requisite, Chemistry 1-2.

1-2. Physiography.

1. First Semester.

The course is designed to give the student a knowledge of the surface features of the earth, dealing particularly with the development of geographic forms and the processes by which they have been made. Lectures, field and laboratory work.

2. Second Semester.

This is a course in applied physiography dealing with the influence of physical environment upon man, upon his history, commerce and culture. Lectures and reference books.

Junior or Senior Year, three hours.

7-8. Evolution.

7. First Semester.

This course includes a discussion of the various theories of evolution and the evidences of evolution among animals.

8. Second Semester.

This course considers the evolution of man from the standpoint of his physical, mental and religious nature. It deals also with the evolution of early art, manufacturing and other forms of culture.

Senior Year, three hours. Pre-requisite, Biology 1-2.

MR. BUELL

9-10. Palæontology.

9. First Semester. General outlines of the whole subject and a detailed study of Palæozoic life. The nature and preservation of fossils will be considered and the specific determination of characteristic Palæozoic fossils in the laboratory will constitute the major part of the course.

10. Second Semester. Mesozoic and Cenozoic life, a continuation of the study of fossil forms through later eras. The work will include a study of the characteristic groups of more recent time and their related physical conditions. The end sought in this course is familiarity with the life of Geologic periods and such specific knowledge of type specimens as to identify them and by this means their Geologic horizons. Lectures, field and laboratory work.

Senior Year, three hours. Pre-requisite, Biology 1-2, Geology 11-12.

Note.—All courses may be elected by the semester, but the second semester courses are open only to those who have completed the work of the first semester.

Those desiring to major in Geology should consult the head of the department.

GERMAN

Professor Dubee, Mr. Menger

MR. MENGER

1-2. Elementary German. *Year Course.*

A course for students who enter College without German. Essentials of German grammar, pronunciation, composition, and reading of easy prose. The books used in 1914-1915 are Prokosch, *Introduction to German*, some of the shorter prose works of Storm and of Heyse, and Schiller's *Wilhelm Tell.*

Freshman Year, four hours.

3-4. Intermediate German. *Year Course.*

Reading of Schiller's *Jungfrau von Orleans, Maria Stuart,* Lessing's *Minna von Barnhelm,* and modern prose. German composition, and constant review of German grammar.

Freshman or Sophomore Year, three hours. Pre-requisite, course 1-2, or two years of high-school German. Students who enter College with more than two years of German should consult the head of this department, before electing their German studies.

PROFESSOR DUBEE

7. German Conversation.

An elementary course in the practical use of German. Drill in the fundamental and idiomatic forms of the language.

First Semester, Sophomore, Junior or Senior Year, three hours. Pre-requisite, course 3-4.

8. German Conversation.

A continuation of Course 7. German conversation on topics from the industrial, civic, and political life of modern Germany.

Second Semester, Sophomore, Junior or Senior Year, three hours. Pre-requisite, course 7.

9-10. Advanced Syntax and Composition. *Year Course.*

Writing of German themes, study of Jagemann's *German Syntax,* and discussion of linguistic difficulties.

Sophomore Year, three hours. Pre-requisite, German 3-4. Required of students who expect to teach German in high-schools.

MR. MENGER

11. The Nibelungenlied.

Reading of selections, in a modern German translation, from the *Nibelungenlied* and other German mediæval epics and lyrics. Lectures on the *Nibelungenlied.* Reports. History of German Literature in outline to Klopstock's time.

First Semester, Sophomore Year, three hours. Prerequisite, course 3-4.

12. Lessing.

Reading of either *Nathan der Weise* or *Emelia Galotti*; also one representative work of the Storm and Stress movement. History of German Literature in outline from Klopstock to Goethe and Schiller. Reports.

Second Semester, Sophomore Year, three hours.

PROFESSOR DUBEE

13. Heine's Relation to the Romantic Movement.

Reading of the prose writings of Heine, and a study of his lyrics. Outside readings and reports.

First Semester, Sophomore Year, three hours. Prerequisite, course 3-4. Given in 1914-15.

14. The German Drama in the Second Half of the Nineteenth Century.

Reading of at least two important dramas, selected from the works of Freytag, Ludwig, Hebbel, Sudermann, or Hauptmann. Outside reading of at least two other dramas from this same group and reports.

Second Semester, Sophomore Year, three hours. Prerequisite, course 3-4. Given in 1914-15, and in alternate years.

16. History of German Literature and Culture (in outline).

A rapid review of the cultural forces in Germany, from the earliest beginnings to our own times. Lectures, outside readings, and reports. No knowledge of German is required for this course.

Second Semester, Junior or Senior Year, two hours. Given in 1914-15, and in alternate years.

17. Schiller and His Time.

A study of Schiller's Dramatic and Lyric works. Lectures on Schiller's artistic development, his influence on the Nineteenth Century, and the cultural conditions of his time. Reports on outside readings.

First Semester, Junior Year, three hours. Pre-requisites, course 3-4, and six semester-hours of more advanced German. Not given in 1914-15.

18. Schiller's *Wallenstein.*

A continuation of course 17. Critical reading of Schiller's greatest drama. Lectures on Schiller's æsthetic and philosophical writings.

Second Semester, Junior Year, three hours. Pre-requisites, as under course 17. Not given in 1914-15.

20. Teachers' Course, in German.

Methods of teaching German in the secondary school. Criticism of text-books. Class-visitation and practice-teaching.

Second Semester, Senior Year, one hour. Required of students who expect to teach German. (See under Pedagogy 10).

21. Masterpieces of the Nineteenth Century.

Rapid reading of the best modern German prose. Lectures on the political, economic, social, and literary conditions of the first half of the nineteenth century, with special emphasis on the causes of the revolution of 1848. Outside readings and reports.

First Semester, Junior Year, three hours.

22. Masterpieces of the Nineteenth Century.

Rapid reading of the best dramatic works, belonging to the second half of the nineteenth century. Outside readings and reports. Lectures as in course 21.

Second Semester, Junior Year, three hours.

23. Goethe's Life and Works.

Careful reading and analysis of Goethe's Lyrics. His philosophy of life, his attitude toward Nature, and his æsthetic principles. Outside reading of Bielschowsky's *Goethe-Biography*, and reports.

First Semester, Senior Year, three hours.

24. Goethe's *Faust*.

This course should be taken as a continuation of course 23, which is intended as a preparation for Goethe's *Faust*.

Second Semester, Senior Year, three hours.

A MAJOR IN GERMAN must include 18 semester-hours, to be selected from Courses 11, 12, 13, 14, 16, 17, 18, 21, 22, 23, and 24.

A GERMAN TEACHING MAJOR must include Courses 9 and 10, and any 12 hours from 11, 12, 13, 14, 16, 17, 18, 21, 22, 23, and 24.

GREEK

PROFESSOR WRIGHT

1-2. Elementary Greek. Greek Grammar; Xenophon and Homer. *Year Course.*

1. First Semester.
2. Second Semester.

This course, introductory to course 3, is offered to students entering College with no knowledge of Greek.

Freshman or Sophomore Year, four hours.

3. Homer.

Two or three books of the *Odyssey* are read slowly, with study of details in language and style; large portions of the epic are then read much more rapidly, with a view to literary appreciation and to a study of the heroic life of Homeric Greece.

First Semester, Freshman Year, three hours. Prerequisite, course 1-2, or its equivalent in high-school Greek.

4. Herodotus, Xenophon, and Plato.

Passages from Herodotus are made the basis of a review of the history of Greece during the Persian Wars and the century preceding. The life, character, and times of Socrates are studied from portions of the following texts: Xenophon's *Memorabilia* and *Symposium*, Plato's *Apology* and *Crito*, *The Clouds* of Aristophanes.

Second Semester, Freshman Year, three hours.

5-6. Euripides, Sophocles, and the Lyric Poets.

5. First Semester.
6. Second Semester.

In these courses the history, form and spirit of the Greek drama are studied. Three or four tragedies are translated, one of which is done into English verse by the members of the class. This version is often given in public as a dramatic rendering. During the latter part of the year selections from Greek Lyric Poetry are translated by the class and compared in style and content with the songs of other peoples.

Sophomore Year, three hours. Elected by the semester.

7-8-9-10. Greek Orators, Philosophers, and Comedians.

To such students as are prepared for advanced Greek readings these semester courses are offered. The works studied are selected according to the requirements and tastes of the students electing.

Junior and Senior Years, two hours.

13-14. New Testament Greek.

13. First Semester.
14. Second Semester.

A study of the characteristics and style of the Greek of the New Testament. This course is intended specially for students of Biblical Literature, and is counted toward a Major in that subject.

Junior or Senior Year, one hour.

HISTORY

Professors Richardson, Way, Wright, Calland

PROFESSOR RICHARDSON

1-2. European History to about 1500. *Year Course.*

This course offers a general view of the history of Europe from the fall of the Roman Empire in the West to the 13th century in the case of Germany, and to the 15th century in the case of France. Emphasis, however, is laid primarily on the nature and the meaning of the basic institutions and mental attitudes of the Middle Ages as underlying modern history and institutions. The course involves study of the transition from paganism to Christianity with the effects of the transition upon the Church; the relations of Church and State; monasticism; the Crusades; the beginnings of modern nationalities.

Freshman Year, three hours. Given annually.

5. French Revolution and Napoleonic Wars.

Particular emphasis will be laid in this course on the intellectual and social background of the Revolution and on the influence of the Revolution upon Europe at large.

First Semester, Sophomore Year, three hours. Given in 1913-14. Not given in 1914-15.

6. Europe since 1815.

This course embraces the Metternichian reaction to the Revolution and the continued influence of the Revolution as seen in the successive changes of government in France, and the establishment of constitutional governments in central and southern Europe. Particular attention will be paid to the founding of Italian and German unity and to the Near Eastern question.

Second Semester, Sophomore Year, three hours. Given in 1913-14. Not given in 1914-15.

7-8. English History. *Year Course.*

7. First Semester.
8. Second Semester.

Lectures, written exercises, and reading on the political and constitutional history of England, from the Norman Conquest to recent times. The outlines of the present system of English government are first studied as described for example in Dicey's *Introduction to the Study of the Law of the Constitution.* An attempt is then made to trace the development of this system through its several stages.

Junior or Senior Year, three hours. Given annually.

45. Men and Times.

A study will be made of a few great men with respect to their permanent significance and to their relation to their times. Such of the following will be studied as time and other conditions allow: the Emperor Marcus Aurelius, the finest product of pagan Rome; Augustine of Hippo, the mystic and legalist; St. Bernard and Abelard, the representatives of the Ages of Authority and of Reason; Petrarch and the Renaissance; Milton and Puritanism; Shaftesbury, the philanthropist; Mazzini, Cavour, and Garibaldi, the founders of Italian nationality.

First Semester, Sophomore, Junior or Senior Year, three hours. Given in 1914-15.

46. Historical Aspects of Current Issues.

A study of the historical backgrounds of certain current issues such as political conditions in the countries within or on the periphery of the Russian Empire,—Finland, Poland, the Balkans, Persia, China, and Japan;Irish Home Rule; the Lords and Commons question; etc.

Second Semester, Sophomore, Junior or Senior Year, three hours. Given in 1914-15.

PROFESSOR WAY

21-22. American Political History. *Year Course.*

21. First Semester. 1783-1829.
22. Second Semester. 1829-1876.

A general course in the constitutional and political history of the United States from the Confederacy to the close of the Reconstruction Period. Lectures, text-book, recitations, collateral reading and topics prepared from original sources.

Junior or Senior Year, three hours. Given annually.

28. Recent History of the United States, 1876-1910.

A study of the recent social and economic organization of the United States with special reference to the trend towards nationalization, commercial and colonial expansion. Lectures, discussions, conferences and collateral readings.

Second Semester, Junior or Senior Year, three hours. Not given in 1914-15.

24. History of the West to 1840.

A study of the conditions of westward migration and the economic, political and social aspects of the occupation of the United States. A practical interpretation of American expansion which alone gives a proper understanding of the American nation of today. Lectures, collateral readings and topics.

First Semester, Junior or Senior Year, three hours. Given in 1913-14, and in alternate years.

30. History of the Trans-Mississippi West, 1840-1910.

A study of the Trans-Mississippi West with reference to its occupation, development, political ideas, and relations with the remaining part of the United States and the world. Lectures, collateral readings and topics.

Second Semester, Junior or Senior Year, three hours. Given in 1913-14, and in alternate years.

31-32. Diplomatic History of the United States, 1783 to 1910. *Year Course.*

A study of the actual negotiations between the United States and other countries and of the progress of international law as far as it has affected or been affected by the United States. Lectures, collateral readings and topics.

Junior or Senior Year, three hours. Given in 1914-15, and in alternate years. This course is Political Science 5-8.

25. Teachers' Course.

Lectures and text-books on the teaching of History in secondary schools. Class visitation; lesson plans; practice in teaching a class. Review of important periods of History taught in high schools.

Second Semester, Senior Year, two hours. This course is intended only for those who intend to teach history in secondary schools. (See under Pedagogy 10.)

PROFESSOR WRIGHT

15. Greek History.

Lectures and recitations emphasizing those Greek events and institutions that have had the most to do with shaping present ideals and modern culture. The studies will center in the Athens of the fifth century B. C.

First Semester, Freshman Year, three hours. (See note under 16.)

PROFESSOR CALLAND

16. Roman History.

Rome's early struggle for existence, the extension of her power over Italy and her conquest of the ancient world. Emphasis will be laid upon Rome's military system, her provincial administration, the development of her literature and art, the economic causes which undermined the Republic, the reception of Christianity, the greatness and decline of the Empire to the Fifth century.

Second Semester, Freshman Year, three hours. Readings, recitations, and lectures. Given annually.

Note: The above courses in Greek History 15, and

Roman History 16 are designed to form a continuous year-course; they may, however, be elected by the semester.

A Major in History consists of twenty-four semester-hours. Six of these must be European History 1-2 taken during Freshman or Sophomore year. The remaining 18 hours may be elected from the other courses offered in the department, barring course 25, except that: (a) Greek and Roman History (15-16), from considerations of continuity, will be accepted as partially fulfilling the Major requirement only when taken in Freshman year: (b) both English History (7-8) and American History (21-22) must be taken at some time during Junior or Senior year: (c) twelve hours deemed consecutive by the department must be taken during Junior and Senior years.

Correlated Work. As correlated with History, the department recommends courses in Economics, Government, and Ancient and Modern Literature. The courses in Art, Biblical Literature, and the History of Philosophy have proved helpful to students in European History.

LATIN

Professor Calland, Professor Burr

PROFESSOR BURR

1-2. Elementary Latin. *Year Course.*

This course is offered in two parts, *a* and *b*, each in alternate years.

1*a*. First Semester. Latin Grammar, Reading Exercises, comparison of Latin with English.

2*a*. Second Semester. Cæsar's *Gallic War*, four books. A review of noun forms and construction, Latin derivatives, prose composition.

The year's work will meet the wants of those who need the equivalent of two years of High School Latin for advanced courses in English, for the study of medicine or law, for college entrance in language, or for the further study of Latin.

1*b*. First Semester Four to six of Cicero's orations, a review of forms and syntax, the Roman Republic, sight Latin and prose composition.

2*b*. Second Semester. Four to six books of Vergil's *Aeneid*, Latin prosody and mythology. An important end of the year's work is a better knowledge and use of English through the Latin.

Part *b* enables those who have taken *a*, or two or three years in the High Schools, to make four units of Latin and to enter Latin courses 3 and 4.

Freshman Year, four hours. Part *b* given in 1914-15; *a* given in 1913-14.

PROFESSOR CALLAND

3. Cicero and Livy.

Cicero: *De Senectute* will be carefully translated and studied. Training in pronunciation, syntax of the subjunctive. Livy: Portions of book XXI. Special studies in the Second Punic War, such as the art of war among the Romans, Hannibal as a military genius, etc.; Livy's literary style and his worth as a historian.

First Semester, Freshman Year, three hours.

4. Horace.

Most of the Odes and a few of the Epodes will be read. Work in scansion and training in metrical translation; critical study of Horace's life and literary style; Roman social and political life in the time of Augustus.

Second Semester, Freshman Year, three hours.

5. Plautus, Terence, and Seneca.

One play of Plautus will be translated carefully; one of Terence and one of Seneca will be read more rapidly. Emphasis is laid on the linguistic and literary importance of these authors; idiomatic translation. Frequently a

Latin comedy has been translated into English verse by the class.

First Semester, Sophomore Year, three hours.

6. Tacitus.

The *Agricola* and *Germania*, and selections from the *Annales*. Peculiarities of the author's style and syntax; readings by the instructor from other Latin authorities which may throw more light upon the history of the early Germanic race and its institutions.

Second Semester, Sophomore Year, three hours.

7. Roman Antiquities.

A course of lectures on the general topic: Public and Private Life among the Romans. The Roman assemblies, officials, temples, basilicas, thermæ, aqueducts, roads, the family, house, food, dress, schools, amusements, etc., are treated somewhat in detail. The work is illustrated by lantern slides. This course is of much practical as well as cultural value. No knowledge of Latin is required.

First Semester, Sophomore, Junior, or Senior Year, three hours. Given every year.

8. Latin Composition.

Latin forms and syntax are taken up in the grammars and thoroughly reviewed. Short sentences illustrating points of syntax are daily emphasized. More formal exercises in composition follow, the work being, for the most part, based on writings of Cicero previously read by the class. Courses 7 and 8 are required of students making Latin their Majors.

Second Semester, Junior or Senior Year, three hours. Given in 1914-15.

16. Advanced Latin Composition.

A continuation of course 8. Extended passages of English prose will be turned into classical Latin; word order and idiom receive attention; simple conversation in Latin.

Second Semester, Senior Year, one or two hours. Given whenever elected by four or more students.

9-10-21-22. Translation at Sight.

9. First Semester.

10. Second Semester.

Selections from various Latin authors, such as Cæsar, Nepos, Sallust, Ovid, Vergil, Pliny the Younger, and Aulus Gellius, will be translated as rapidly as possible. The object of the course is to enable the student to translate average Latin with greater comfort and rapidity. The reading of Latin without translating will be a feature of the course.

Sophomore, Junior, or Senior Year, one hour. Given whenever elected by six or more students. If a third semester is taken it shall be numbered 21; if a fourth, it shall be numbered 22.

11. Cicero.

The *De Officiis* or *Disputationes Tusculanae* will be read with special reference to their ethical teachings and value. Assigned topics and discussions.

First Semester, Junior or Senior Year, two hours. Given in 1914-15.

13. Horace.

Selections from the Satires and Epistles. A study of Horace's philosophy of life; the influence of Greek philosophical schools on Horace's teachings. Papers on special topics.

First Semester, Junior or Senior Year, two hours. The course will be given occasionally instead of course 11.

12. Juvenal and Petronius.

Selections from Juvenal's Satires and Petronius' *Cena Trimalchionis*. Studies in Roman satire; Roman life under the Cæsars.

Second Semester, Junior or Senior Year, two hours. Given in 1914-15.

14. Lyric and Elegiac Poetry.

Selections from Catullus, Ovid, Propertius, and Tibullus. The works and style of these writers will serve as a basis for the discussion of the literature in general of the Augustan Age.

Second Semester, Junior or Senior Year, two hours. This course will be given occasionally instead of course 12.

15. Lucretius.

A seminar course including translations of Book V and selections from other books of *De Rerum Natura*. Lucretius as a man, teacher, poet, and philosopher. Epicureanism among the Greeks and Romans; the atomic theory as a forerunner of modern scientific views.

First Semester, Junior or Senior Year, two hours. Not given in 1914-15.

PROFESSOR BURR

18. Teachers' Course.

A careful review of portions of Cæsar, of the syntax of cases, and of Latin pronunciation; the ends and methods of the work in the first and the second year of Latin; class-visitation and practice teaching; comparison of text-books.

Second Semester, Senior Year, one hour.

20. Teachers' Course.

A review of one oration of Cicero, and one book of the *Aeneid*, of verb forms and syntax, and of versification; the ends and methods of the study and the teaching of these authors; the Latin and the English as means of the expression of thought; class-visitation and practice teaching; suggestions as to text-books and reference works.

Second Semester, Senior Year, one hour.

NOTE.—Those planning to elect both 18 and 20 may take one in the Junior year. (See under Pedagogy 10.)

A Major in Latin consists of twenty semester hours. Students planning to make Latin their Major should elect Courses 3, 4, 5, 6, 7, 8, and two additional semester-hours from any of the other courses except 18 and 20. Courses 7 and 8 should be taken during the Junior and Senior years and these with six semester hours of Classic Art will be accepted as the twelve hours of the Junior-Senior requirement. Latin Major students are advised to elect also History 15 and 16, especially 16.

LIBRARY SCIENCE

Miss Butlin

1. General Reference.

The purpose of this course is to guide the student to an intelligent use of a modern library and to the pursuit of the various subjects in the college curriculum with greater facility. It is also recommended to those who contemplate graduate study or any form of research work. The course comprises lectures on the classification and arrangement of books in a library, bibliography, library catalogues, public documents and groups of reference books.

First Semester, one hour. Open to all classes. Given annually.

3. Library Methods.

A systematic study of the resources of a library as outlined above in course 1, to which is added a comparative study of library methods in general, with especial attention to cataloguing, classification and indexing. The course aims to qualify those expecting to teach to take charge of school libraries. Since library methods are so widely in use in the business world, the course should be of value also to those planning this career. Lectures, seminars and practice work in the library.

First Semester, two hours. Open to Sophomores, Juniors and Seniors. Given annually.

MATHEMATICS

Professor Hamilton, Mr. Myers

1. Trigonometry; forms a *Year Course* with 2.

   The greater part of the course is devoted to the development of formulæ and the reduction of identities. Enough time is given to the solution of triangles and the use of tables to make the student thoroughly familiar with this kind of work. This course takes up the elements of Plane Trigonometry.

   First Semester, Freshman Year, three hours. Given annually. Pre-requisite, one and one-half years in Algebra for entrance.

2. College Algebra; forms a *Year Course* with 1.

   Much attention is given to graphical representation of linear equations and equations of the second degree. Mathematical induction and the binomial theorem for positive integral exponents, permutations and combinations, complex numbers, and the theory of equations, are among the subjects studied.

   Second Semester, Freshman Year, three hours. Given annually. Pre-requisite, one and one-half years in Algebra.

1a-2a. Review of Algebra, Trigonometry, College Algebra. *Year Course.*

1a. First Semester.
2a. Second Semester.

A course open to those who have presented for entrance to College both Plane and Solid Geometry, and but one year of Algebra. The work starts with a review of elementary Algebra, such as is usually given in the third semester of high school Algebra, continues with Plane Trigonometry and College Algebra, covering practically the same ground as course 1-2.

Four hours. Pre-requisite, Plane and Spherical Geometry and one year of Elementary Algebra. Given annually.

1b-2b. Solid and Spherical Geometry, Trigonometry, College Algebra. *Year Course.*

1b. First Semester.
2b. Second Semester.

A course for those who have presented for entrance only Plane Geometry and either a year, or a year and a half of Algebra. The work starts with Solid Geometry, continues with the Geometry of the sphere, and takes up in addition practically the same matter as course 1-2.

Four hours. Pre-requisite, one year of Plane Geometry. Given annually.

3-4. Analytic Geometry and Beginning Calculus. *Year Course.*

3. First Semester.
4. Second Semester.

The work in Analytic Geometry continues the graphical representation of courses 2, 2a, 2b, takes up the straight line, the circle and other conic sections, polar co-ordinates, and transformation of co-ordinates.

In the Calculus both differentiation and integration are taken up, with emphasis upon the fundamental notions underlying these operations. The principal fundamental formulæ are abundantly illustrated with problems.

Sophomore Year, three hours. Pre-requisite, Courses 1-2, 1a-2a, or 1b-2b.

5-6. Differential and Integral Calculus. *Year Course.*

5. First Semester.
6. Second Semester.

These courses are a continuation of 4. Stress is placed upon derivation of formulæ and problem solving. That the student may become as familiar with the processes and meaning of differentiation and integration, as he is with those of arithmetic, the course is conducted with little lecturing and with much recitation. The courses are for Mathematics Majors, for students interested in advanced Physics, and for those looking toward Engineering.

Junior Year, three hours. Pre-requisite, Courses 3-4. Given annually.

23-24. Seminar in Practical Mathematics. *Year Course.*

23. First Semester.
24. Second Semester.

This course is primarily for students of Chemistry and Physics who are interested in the practical applications of higher Mathematics. In 1914-15 the class will read Nernst and Schoenflies' *Einfuhrung in die Mathematische Behandlung der Naturwissenschaften.* This will be supplemented with selections from Saxelby's *Practical Mathematics.*

Senior Year, two hours, Pre-requisite, Course 3-4, and facility in reading German. Given in 1914-15, and alternate years.

7. Differential Equations.

A study of the theory of ordinary and partial differential equations: equations of the first and second orders, linear equations with constant and variable coefficient solutions in series, simultaneous equations, partial differential equations of the first and higher orders.

First Semester, Senior year, three hours. Pre-requisite, Course 5-6. Of Courses 7, 8, 27, 28, 29, 30, but one will be given in any one semester.

8. Solid Analytic Geometry.

An elementary course in the Analytic Geometry of three dimensions. A study is made of the plane, of quadric surfaces, and plane sections of conicoids.

Second Semester, Senior Year, three hours. Pre-requisite, Course 5. Of Courses 7, 8, 27, 28, 29, 30, but one will be given in any one semester.

27-28. Theory of Equations.

27. First Semester.

28. Second Semester.

The Theory of Equations, with an introduction to binary forms and invariants.

Senior Year, three hours. Pre-requisite, Course 5-6. Of Courses 7, 8, 27, 28, 29, 30, but one will be given in any one semester.

29. Theory of the Complex Variable.

Lectures on the Theory of Functions of the Complex Variable, illustrated by examples. Many exercises to be worked out by the student.

First Semester, Senior Year, three hours. Pre-requisite, Courses 5-6. Of Courses 7, 8, 27, 28, 29, 30, but one will be given in any one semester.

30. Synthetic Projective Geometry.

Lectures, reports, readings, and exercises, dealing with the elementary portions of Synthetic Projective Geometry with construction problems.

Second Semester, Senior Year, three hours. Pre-requisite, Course 3-4. Of Courses 7, 8, 27, 28, 29, 30, but one will be offered in any one semester.

13-14. Descriptive Geometry. *Year Course.*

13. First Semester.

14. Second Semester.

The course deals with the mathematical theory of the representation of objects on a plane. It includes a thorough study of orthographic projection, some practice in perspective, and a somewhat complete view of the various methods used in map making, such as spherical, conic and other forms of projections.

Three hours. Pre-requisite, Mechanical Drawing. Given in 1913-14, and in alternate years.

22. History of Mathematics and Teaching of Mathematics.

This course is designed to give a fair idea of the historical development of the science of Mathematics, as well as of its scope and extent. It is especially recommended to those who expect to teach Mathematics, or to go beyond the bare elements of the subject.

Second Semester, Sophomore, Junior, or Senior Year, three hours. Pre-requisite, course 5 or equivalent. Given when demanded by a sufficient number of students.

Beginning with the class of 1914, a Major in Mathematics will consist of courses 1-2, 3-4, 5-6, and two courses from courses 7, 8, 27, 28, 29, 30. In general only course 1a-2a or 1b-2b may take the place of course 1-2.

MUSIC

Assistant Professor Sleeper

1-2. Elementary Music. *Year Course.*

1. First Semester.
2. Second Semester.

Notation, intervals, keys, scales, ear training.

Freshman Year, one hour.

3-4. Harmony. *Year Course.*

3. First Semester.
4. Second Semester.

Some ability in piano playing is required of students who elect Harmony.

Sophomore Year, three hours. Pre-requisite, course 1-2.

11-12. Counterpoint. *Year Course.*

11. First Semester.
12. Second Semester.

In courses 1-2, 3-4, and 11-12, emphasis is laid upon original work.

Junior or Senior Year, three hours. Pre-requisite, courses 1-2, 3-4. Given in 1913-14, and in alternate years.

7-8. General History of Music. *Year Course.*

7. First Semester.
8. Second Semester.

Junior or Senior Year, three hours. No pre-requisite. Given in 1914-15, and in alternate years.

13-14. Appreciation of Music. *Year Course.*

13. First Semester.
14. Second Semester.

Analytical study of masterpieces from the point of view of the listener.

Junior or Senior Year, three hours. No pre-requisite. Given in 1913-14, and in alternate years.

15-16. Public School Music. *Year Course.*

Designed primarily for teachers. Sight reading, ear training, dictation, child voice, school song, conducting.

Junior or Senior Year, two hours. Pre-requisite, course 1-2. Given in 1914-15, and in alternate years.

Courses in Music may be elected only after consultation with the Instructor.

PEDAGOGY

Professor Burr

1. Applied Psychology.

A course in conditions and principles of mind-development in the process of education. Lectures, text-book, assigned readings, and application to school problems. These practical applications of Psychology are meant to be helpful not only to those who may teach, but to all whose work may be with the minds of men, as in the professions of medicine, the ministry, the law, and in business.

First Semester, Junior or Senior Year, three hours. Pre-requisite, Psychology 2.

2. Methods and Organization.

A study of the ends and methods of class-instruction in secondary schools, of courses of study and of school organization. Lectures, text-book, readings, lesson-plans, practice teaching, and school visitation.

Second Semester, Junior or Senior Year, three hours. Pre-requisite: For Juniors, Pedagogy 1; For Seniors, Psychology 2.

4. History of Education.

A study of the means and aims of Greek and of Roman education, and of the educational reformers of the seventeenth, eighteenth, and nineteenth centuries. Text-book and assigned readings.

Second Semester, Junior or Senior Year, two hours. The above courses 1, 2, and 4, are given each year.

6. Moral and Religious Education.

The moral and religious life; its psychology; its child, adolescent and adult types; the means and methods of its unfolding and growth in the home, the Sabbath School, the Public School, and in the various forms of religious work. Lectures, readings and discussions.

The purpose of the course is a study of the principles and plans of moral and religious training for helpful service in the home, as teachers, Y. M. C. A. and Y. W. C. A. secretaries and assistants, as missionaries, pastor's assistants, and as members of church and society.

First Semester, Junior or Senior Year, two hours. Pre-requisite for credit in the course, Psychology 2.

10. Teachers' Course.

Teachers' Courses are offered in Botany, Chemistry, English, German, History, Latin, Mathematics, Physical Geography, Physics, and Zoology. Their purpose is to give some special preparation for teaching one or two subjects in high schools and academies. Description of these courses will be found under the respective departments. Only two semester-hours of these courses are accepted by the College towards the 120 hours required for graduation. Such courses are to be elected under Pedagogy 10 and do not count towards a Major or other requirements of the several departments.

Second Semester, Senior Year, one hour or two hours.

Before electing Teachers' courses, students will confer with the head of the department of Pedagogy.

COMBINATIONS OF COURSES. Those who expect to teach in the smaller high schools should endeavor to make these combinations in their preparation:

Botany and Physical Geography.
English, and Latin or German or History.
Latin and German.
History and Civics.
Mathematics, and Physics or Chemistry.

NOTE.—Those who desire the license to teach, issued by the State Superintendent of Public Instruction of Wisconsin and the State Certificate granted by the State Board of Examiners, should elect twelve hours, as follows: Psychology 2, Pedagogy 1 or 2, Teachers' courses amounting to two hours, and in addition four hours from the following courses: Pedagogy 1, 2, or 4, Psychology 10.

PHYSICS

PROFESSOR CULVER

1-2. General Physics. *Year Course.*

1. First Semester.
2. Second Semester.

A general elementary course, covering Mechanics, Heat, Wave-motion and Sound, Light, Electricity, and Magnetism. Lectures and recitations based on a standard text, accompanied by a systematic course in quantitative laboratory practice.

Sophomore Year, four hours, consisting of three hours of lectures or recitations and one three-hour laboratory period. Pre-requisite, Mathematics 1-2.

3. Theory of Experimental and Applied Electricity.

A course of lectures, with collateral reading, on the fundamental principles of modern electrical appliances and machinery, together with a discussion of electric waves and their application to wireless telegraphy and telephony, the conduction of electricity through gases, and radio-activity.

First Semester, Junior or Senior Years, three hours. Pre-requisites, course 1 2, and Mathematics 5-6. Given in 1914-15.

5. Electrical Measurements.

A laboratory course, covering the refined measuring of resistence, electromotive force, current, inductance, power; the standardization and calibration of the various electrical meters; and the testing of the magnetic properties of iron.

Second Semester, Junior or Senior Year, three hours. Pre-requisites, course 1-2. The student is also urged to take course 3 before electing the course in Electrical Measurements. Given in 1914-15.

4. Light.

An advanced study of the theory of physical optics, covering refraction, dispersion, absorption, interference, diffraction, polarization, magneto-optics, fluorescence, and phosphoresence. The course will also include a treatment of the theory of optical instruments. Lectures and recitations based on Wood's *Physical Optics*, together with collateral reading.

Second Semester, Junior or Senior Year, three hours. Pre-requisites, course 1-2 and Mathematics 5-6. Given in 1915-16 and in alternate years.

9. Musical Acoustics.

The subject matter of this course constitutes the physical theory of music, and will involve a treatment of the physical basis of pitch, chords, scales, quality, and the law of vibration of strings, plates, rods, and air in pipes. Lectures with illustrative experiments.

Second Semester, Junior or Senior Year, three hours. Given in 1914-15 and in alternate years.

11 12. Theoretical Mechanics. *Year Course.*

11. First Semester.
12. Second Semester.

The course will cover the fundamental principles of statics and dynamics. The subject will be treated from an engineering standpoint, special attention being given to practical problems. Lectures and recitations based on a standard text.

Junior or Senior Year, three hours. Pre-requisites, course 1-2 and Mathematics 5-6. Given when elected by enough students to form a class.

15-16. Advanced Measurements.

15. First Semester.
16. Second Semester.

A laboratory course consisting of advanced experiments in mechanics, heat, sound, and light.

Junior or Senior Year, two hours. Elected by the semester. Pre-requisite, Physics 1-2. Given annually.

A MAJOR IN PHYSICS shall consist of courses 1-2, 3, 5, a thesis (three hours) and any other three hours, except course 9.

The general course, 1-2, is designed to meet the requirements of those who wish to pursue the subject of physics as part of a liberal education, and also of those who desire to lay a foundation for advanced study, or to enter engineering courses.

Course 7 is designed to meet the needs of those who expect to teach physics or other of the physical sciences.

Courses 1-2, 3, 5, and 15-16 should be taken by those expecting to study medicine or electrical engineering, or to teach physics.

Courses 11 to 16 inclusive should be taken by those planning to enter the other engineering professions.

A thesis, for which three hours credit is given, is required of all students majoring in this department.

POLITICAL SCIENCE

PROFESSOR WAY, JUDGE ROSA

1-2. American Government and Politics. *Year Course.*

1. First Semester. An introductory study of the fundamental principles of Political Science, followed by a general study of the American system of national government with the development, organization and methods of procedure of political parties, their use and control, and present reform tendencies.

2. Second Semester. The American national system of state and local government, and of political parties.

This course is the introductory course in Political Science. Sophomore, Junior or Senior Year, three hours. Given annually.

3. International Law.

Along with a thorough study of Hersey's *Essentials of International Law*, written briefs of the principal cases, on which recitations are held. Practical International Law situations and problems will be assigned for careful study.

First Semester, Junior or Senior Year, three hours. Given in 1913-14 and alternate years.

4. Municipal Government in the United States.

Growth of cities; municipal organization and functions in the United States; police; light and water supply; urban transportation; municipal ownership or control of public utilities; charities; education; city planning.

Recitations, lectures, assigned studies and reports. Second Semester, Junior or Senior Year, three hours. Not given in 1914-14. In 1914-15 students may elect course 2 in which the main substance of 4 will be given.

7-8. American Diplomacy, 1783-1910. *Year Course.*

Treats of the important international relations of the United States from its establishment to the present day. Recitations, lectures and written work.

Junior or Senior Year, three hours. Open only to those who have taken or are taking History 21-22. Given in 1914-15 and alternate years. The same course as History 31-32.

6. Political Theories and Philosophy of the State.

An explanation of the principles, methods, and relations of political science; the origin, nature, forms and functions of the state; sovereignty and liberty; citizenship and nationality; constitutions; principles of political organization. The political theories of Aristotle, Machiavelli, Hobbes, Locke, Rousseau, Montesquieu, and the evolution of American political ideas, will be explained.

Second Semester, Junior or Senior Year, three hours. Given in 1914-15 and alternate years.

7. Constitutional Law of the United States.

General study of the Constitutional law of the United States. A standard text is used, and the students prepare briefs of the famous court decisions as found in Thayer's *Cases*. The course can be taken most satisfactorily after courses 1-2 and History 21-22.

First Semester, Junior or Senior Year, three hours. Given in 1914-15 and alternate years.

10. European Governments.

A study of the constitutional organization of the principal governments of Europe, especially England, France, and Germany, with considerable attention to political parties and current political questions.

Second Semester, Junior or Senior Year, three hours. Given in 1913-14, and in alternate years.

JUDGE ROSA

9. Commercial Law.

This course aims to present in a practical manner the Law of Contracts and Business Relations. An authoritative law text is used and cases are studied.

Second Semester, Junior or Senior Year, two hours.

A MAJOR IN POLITICAL SCIENCE consists of 21 hours, which shall include courses 1-2, 3 or 7, and 5-8. They should be taken in the order indicated. Course 1-2 should be taken in Sophomore year. All students majoring in this department should be well grounded in the ancient languages and should have a good reading knowledge of French and German.

Eighteen hours should be elected under the advice of this department from the following courses, as correlated subjects: History 7-8, 11-12, 21-22, 6; Economics 21-22, 8; History of Modern Philosophy.

A COMBINED MAJOR IN POLITICAL SCIENCE AND AMERICAN HISTORY may be taken, by electing with the advice of the department of Political Science, courses 1-2, History 21-22 (American Political) with 9 additional hours in Political Science, American History, or both.

PSYCHOLOGY AND PHILOSOPHY

PROFESSOR WAUGH, PROFESSOR J. F. CRAWFORD

1. Logic.

An introduction to the elements of logic, with some reference to the problems of philosophy. The course aims to give the fundamentals of scientific and historical method and to afford training in correct logical procedure. Lectures and exercises. Text: Hibben.

First Semester, Sophomore, Junior or Senior Year, three hours.

2. Elementary Psychology.

An introductory course, giving, by means of lectures, recitations, and demonstrations, a general survey of the essential facts and fundamental laws of mind. Texts: Pillsbury and James.

First Semester, Junior or Senior Year, three hours.

2. Elementary Psychology.

A repetition of the preceding course.

Second Semester, Sophomore, Junior or Senior Year, three hours.

4. Advanced Psychology.

An intensive study of selected problems. For 1914 the work will be a study of the applications of psychology to the professions of law and medicine, and to the business world, advertising, salesmanship, scientific management, etc.

Second Semester, Junior or Senior Year, three hours. Pre-requisite, course 2.

9. Comparative Psychology.

A systematic study of mental development in the race. The course will sketch the evolution of mind in the animal series. Lectures, reports, and paper on some selected topic. Text: Washburn, *The Animal Mind.*

First Semester, Junior or Senior Year, three hours. Pre-requisite, course 2.

10. Psychology of the Child.

A genetic study of mind in the individual. The course will trace the growth of mental functions in childhood, with special reference to educational theory. Text: Drummond, *Introduction to Child Study.*

Second Semester, Junior or Senior Year, three hours. Pre-requisite, course 2.

7. Ethics.

A systematic course, investigating the psychological basis of conduct, tracing the growth of moral ideas in the race, and discussing various theories of the moral standard.

First Semester, Junior or Senior Year, three hours.

8. Metaphysics.

An introduction to philosophical problems and tendencies. Text: Russell, *First Course in Philosophy.*

Second Semester, Junior or Senior Year, three hours. The Instructor must be consulted before this course is elected.

5. History of Ancient and Mediæval Philosophy.

A study of the development of philosophic thought, from the Greeks to the Renaissance. Lectures, readings and theses. Texts: Cushman, *A Beginner's History of Philosophy, vol. 1,* Bakewell, *Source Book in Ancient Philosophy.*

First Semester, Junior or Senior Year, three hours. Alternates with course 15. Not given in 1914-15.

6. History of Modern Philosophy.

The growth of European thought, from Bacon and Descartes through the 18th Century. Lectures and required readings. Texts: Cushman *vol. II*, Rand, *Modern Classical Philosophers.*

Second Semester, Junior or Senior Year, three hours. Alternates withh course 16. Not given in 1914-15.

15. History of Modern Philosophy since Kant.

The growth of European thought during the 19th Century. Texts: Cushman, Rand.

First Semester, Junior or Senior Year, three hours. Alternates with course 5.

16. Contemporary Philosophical Tendencies.

A critical study of recent philosophical movements. Lectures, readings and theses.

Second Semester, Junior or Senior year, three hours. Pre-requisite, one of the three preceding courses. Alternates with course 6.

13-14. Experimental Psychology.

This course gives an introduction to Experimental Psychology, and aims to familiarize the student with modern psychological methods, apparatus, and results. Typical experiments in the psychology of the senses, feeling, and movement. Application of Mental Tests. Lectures, laboratory work, and required readings.

Junior or Senior Year, three hours. Pre-requisite, course 2. Elective by the semester.

11. Social Psychology.

A study of the social factors in the development of the individual and in the organization of society. Texts: Cooley, *Human Nature and the Social Order. Social Organization.*

First Semester, Junior or Senior Year, three hours.

12. Social Ethics.

A discussion of certain social problems of modern life, and of movements directed toward the improvement of social conditions, with special reference to their ethical significance. Lectures, readings, and reports.

Second Semester, Junior or Senior Year, three hours.

3. Advanced Logic.

A study of recent logical theories. Lectures, readings, and theses.

First Semester, Junior or Senior Year, three hours. Pre-requisite, Logic 1. The instructor must be consulted before this course is elected.

18. Esthetics.

This course aims to develop a general theory of art-work which shall apply to all the fine arts. The psychology of the esthetic state is discussed and special attention is given to the problems of unity, symmetry, rhythm, etc. Text: Gordon, *Esthetics*.

Second Semester, Junior or Senior Year, three hours. Pre-requisite, Psychology 2. Given when desired by a sufficient number of students.

20. Psychological Seminar.

From time to time a reading course may be organized, dealing with some particular topic, or reviewing the articles in current psychological journals.

A MAJOR IN PHILOSOPHY AND PSYCHOLOGY consists of Psychology 2, and fifteen semester-hours selected from the courses in the department. Pedagogy 1 may be included. For a MINOR see p. 83.

PUBLIC SPEAKING

ASSISTANT PROFESSOR CRAWFORD

1-2. Elementary Speaking. *Year Course.*

1. First Semester.

2. Second Semester.
This is an elemental course and a pre-requisite to all other work except courses 5, 10 and 11. The fundamentals aimed at are as follows: thought conception, power of analysis, orderly arranging of one's thoughts, mental grasp, self-control before the public and the effective delivery of a definite message. Incidentally such technique as the voice demands together with the correction of platform bearing, completes the course. The work is developed by practical exercises and short original speeches.

Freshman Year, one hour.

5. Argumentation.

A study of the principles of analysis, brief-drawing, evidence, and persuasive presentation, designed to give the student ability in constructive thinking and in testing the argument of others. Three long forensics and numerous short exercises are required. Text-book, lectures, and outside readings. This course is pre-requisite to Public Speaking 3, 6, and 9.

First Semester, Sophomore or Junior Year, three hours.

6. Debating.

A practical and critical course in debate. Students appear in three debates before the class. The gathering of material, brief-drawing, and construction of the argument are done under the personal direction of the instructor. Each student also speaks several times from the floor. The theory of debate, including burden of proof and methods of proof and refutation, are studied, together with the elements of effective presentation upon the platform.

Second Semester, Sophomore, Junior, or Senior Year, three hours. Pre-requisite, course 5. As the size of the class is limited, the consent of the instructor must be obtained for entrance to the course.

8. Extempore Speaking.

Students speak regularly before the class upon topics that have been assigned for investigation. The form of a short extempore speech, to meet varying situations, is first discussed critically and then practiced by the class. The aim constantly kept in mind is to stimulate students to think out their own opinions, to use the library as a storehouse of material, and to acquire fluency in platform presentation.

Second Semester, Junior or Senior Year, three hours. Pre-requisite, course 1-2, or 5-6.

3. The Forms of Public Address.

A study is made of the more important kinds of public address, including the eulogy, after-dinner speech, political speech, and speech for a special occasion. Under each form an analysis of masterpieces and a study of principles precede the composition by members of the class.

First Semester, Junior or Senior Year, three hours. Pre-requisite, course 5, or Rhetoric 3.

9. Political Speaking.

This course will be offered only to those specially qualified for the work. The Presidential and Congressional elections furnish the background for the course. The campaign questions, methods and speeches will be studied and opportunities to address political assemblies given.

First Semester, Senior Year, two hours.

10. Literary Interpretation, for Women.

This is a fundamental course in expressional reading. The purpose is to give oral expression to those thoughts in literature that too often are only faintly realized. Only Nature's and Truth's own response is developed. Expression for the real message's sake and not for art's sake is sought.

First Semester, Sophomore, Junior, or Senior Year, two hours.

11. Public Speaking, for Women.

This course aims to fit young women for all those public and semi-public occasions at which they might be called upon to speak. Addresses varying with the social occasions will be studied, composed and delivered. The organizing and conducting of public and social meetings together with incidental technique of the voice complete the aims of the course.

Second Semester, Sophomore, Junior, or Senior Year, two hours.

RHETORIC

Professor Clancy, Dean Cooper, Mr. Hedges

1-2. Rhetoric. *Year Course.*

The theory and practice of Composition with special emphasis upon expository writing. Textbook study, class discussion of themes, and the analysis of a number of modern essays, assist the student in securing a knowledge of the principles of good expression. These principles are applied constantly in theme-writing. Each student meets his instructor in frequent individual conferences. Students who are found to be deficient in spelling, punctuation, grammar, or sentence-structure, will be required to take special work to make up the deficiency.

Freshman Year, two hours. Required of all students.

PROFESSOR CLANCY

3-4. Advanced Composition.

3. First Semester.
4. Second Semester.

For students who desire further practice in expository and descriptive writing. Discussion of principles and examination of specimen essays, particular attention being given to the prose of contemporary writers. In addition to frequent short themes several papers of considerable length are required.

Sophomore, Junior, or Senior Year, three hours. The first semester is a pre-requisite of the second, except for students who have made an exceptionally high grade in Rhetoric 1-2. In the second semester, because of the large amount of outside reading, the class will meet in recitation but twice a week. Given annually.

5. Argumentation.

See under Public Speaking.

10. Journalistic Writing.

This course gives a considerable amount of rapid practice in the various forms of journalistic writing, such as news stories, editorials, criticisms, and the like. Students are asked to do actual reporting in the city, and for a few weeks a college newspaper is published by the class. There is also some examination of the purpose and methods of the modern newspaper.

Second Semester, Junior or Senior Year, two weekly class periods counting as three hours. Pre-requisite for 1914-15, one semester of Advanced Composition. After 1914-15 *one year* of Advanced Composition will be required. Given in 1914-15.

12. Short Stories.

A study of the technique of the short story as a form of literary art, with considerable practice in narrative writing. Lectures, textbook study, and assigned readings.

First Semester, Junior or Senior Year. Two hours. Pre-requisite for 1914-15, one semester of Advanced Composition. After 1914-15 *one year* of Advanced Composition will be required. Election of this course should be made only after consultation with the instructor. Given in 1914-15.

ROMANCE LANGUAGES

PROFESSOR YOUNG, MR. HORST

French

1-2. Beginning French. *Year Course.*

1. First Semester.

2. Second Semester.

The elements of French grammar, the reading of easy texts; drill in pronunciation; composition.

Freshman or Sophomore Year, three hours.

3-4. French Readings. *Year Course.*

3. First Semester.
4. Second Semester.

Modern short stories and dramas. Six lectures each semester on the development of French literature. Conversation and composition.

Sophomore, Junior, or Senior Year, three hours.

PROFESSOR YOUNG

5-6. French Drama or Novel. *Year Course.*

5. First Semester.
6. Second Semester.

Study of the drama or novel from the beginnings to the present day.

Junior or Senior Year, three hours. Pre-requisite, course 3-4, or an equivalent. Given in 1913-14.

7-8. Conversation and Composition. *Year Course.*

Junior or Senior Year, three hours. Pre-requisite, course 3-4, or an equivalent.

9-10. General Survey of French Literature. *Year Course.*

9. First Semester.
10. Second Semester.

Reading of representative works from the Renaissance to the present day. Lectures, outside reading, and reports.

Junior or Senior Year, three hours. Pre-requisite, course 3-4, or an equivalent. Given in 1914-15.

11-12. Masterpieces of French Literature of the Nineteenth Century.

11. First Semester.
12. Second Semester.

Study of the great works of the nineteenth century. Lectures, assigned readings, and reports.

Junior or Senior Year, three hours. Pre-requisite, course 3-4, or an equivalent. Given in 1915-16.

NOTE.—Any two of the courses 5-6, 9-10, 11-12, which are given in rotation, may be taken in successive years.

Italian

PROFESSOR YOUNG

1-2. Elementary Italian. *Year Course.*

1. First Semester.
2. Second Semester.

Elements of Grammar, reading of easy texts, drill in pronunciation, composition.

Sophomore, Junior, or Senior Year, three hours. To alternate with Spanish 1-2. Given in 1914-15.

3-4. Italian Literature. *Year Course.*

3. First Semester.
4. Second Semester.

The greater part of the time in this course will be devoted to the study of Dante, but there will also be consideration of other writers and some drill in the practical use of the language.

Junior or Senior Year, three hours. Given in 1913-14, and in alternate years.

Spanish

PROFESSOR YOUNG OR MR. HORST

1-2. Elementary Spanish. *Year Course.*

1. First Semester.
2. Second Semester.

The course consists of the elements of grammar; the reading of easy texts; drill in pronunciation, and composition.

Sophomore, Junior, or Senior Year, three hours. Given in 1913-14.

3-4. Advanced Spanish. *Year Course.*

3. First Semester.
4. Second Semester.

Reading of modern novels and plays. According to the wishes of the class, a part of the time will be given to conversation or an introduction to Commercial Spanish.

Junior or Senior Year, three hours. Given in 1914-15, and in alternate years.

A MAJOR IN ROMANCE LANGUAGES consists of 24 semester-hours, with French 1-2 or an equivalent as pre-requisite.

Degrees Conferred at Commencement
1913

BACHELOR OF ARTS

Summa cum Laude

Anna Ruth Clinchy
Florence Mary Jones

Magna cum Laude

Rispah Britton Goff
Elsa Mabel Peterson
David Wattell Naftalin

Cum Laude

Harry Leslie Adams
Robert A. Baker
Valeria Blunt
Arthur Norman Brown
Christopher William Browne
Ruth Boyd Dickinson
Ralph Knowles Entrikin
Lulu Catherine Gayton
Adaline Greene
Walter Willis Hammond
Percival Winterburn Hutson
Charles Lee Hyde, Jr.
Lila May Lauderdale
Ralph Weston McCoy
James Allen Miller
Frederic Dwight Pellet
Georgia Lillian Pike
Gaylord Walter Ramsay
Mary Iva Reid
Marion Walter Stahlnecker
Mildred Louise Sutherland
Agnes Thornton
Marguerite Frances Turney

Walter Smith Burke, Jr.
Estelle Cooper
Elmer Ralph Durgin
Harrod Elliott Hiller
Bert Chase Holmes
Philip Harlow Macumber
E. Hjalmar Monson
Marjorie Filmer Northrop
Bessie Davis Reed
Elizabeth Smith

BACHELOR OF SCIENCE

Magna cum Laude

Robert Everett Haylett

Cum Laude

Alfred Newman Barron
Arthur Farquhar Collins
John Wallace Dooley
George Louis Ebert
Sherman Edwards Kent
John Asdal Kittelson
Luella Frances Mereness
Grace Shoemaker
Irwin Ivan Van Lone

Walter Scott Gillies
Edith Margaret Greenlee

MASTER OF ARTS

Edna Hermine Menger

DEPARTMENTAL HONORS

Robert Everett Haylett	Chemistry
Walter Willis Hammond	Economics
Anna Ruth Clinchy	German
Elsa Mabel Peterson	German
Robert Everett Haylett	Mathematics (Thesis in Chemistry)

Award of Prizes

1912-1913

THE LEWIS PRIZE

Anna Ruth Clinchy	Class of 1913

THE ORVIS AND ROWNTREE PRIZES

Ralph Hay	Class of 1916
Theodore Lipman	Class of 1916
Alvin Elmer Rutenbeck	Class of 1916

THE RICE PRIZE

Clark Currier	Class of 1914

THE MISSIONARY PRIZE

Henrietta Renwick	Class of 1914

THE LOGAN PRIZES

Edmund Lewis Jacobsen	Class of 1915
Charles Lee Hyde, Jr.	Class of 1913

THE HAY PRIZE

Walter Willis Hammond	Class of 1913

THE FINE ARTS PRIZE

Ralph Knowles Entrikin	Class of 1913

THE HORACE WHITE PRIZE

Edith Laura Horstmann	Class of 1915
Pearl Camilla Marsden	Class of 1915

THE JACKSON J. BUSHNELL PRIZE

Earl Dalton Raisen	Class of 1914

THE ELIZABETH MCMOLLEN PRIZE

George Louis Ebert	Class of 1913

THE MIDDLEBROOK PRIZES

Harold Wade	Class of 1914
Gaylord Walter Ramsay	Class of 1913
Christopher W. Browne	Class of 1913

THE STUDENT COUNCIL

Harold Wade, *ex-officio*

McDonald Anderson
Earl Caskey
Marie Sterling
Mary Williams
Ralph Williams
Clair Woodward

Arthur Bachus
Elliott Denney
Audus Shipton
Helen Stout

Eugene Carlson
Arthur Dempsey
Laura Tracy

Williston Reckhow
Carol Sleep
Jay Townsend

The Students

In the following directory, C. H. stands for Chapin Hall, E. H. for Emerson Hall, J. H. for Junior House, S. C. for Stowell Cottage.

SENIOR CLASS

Aldrich, Lynn Ellis	Rockford, Ill.	1248 Chapin St.
Alpine, John Gorman	Joliet, Ill.	1248 Chapin St.
Amborn, Edna Viola	Beloit	1003 Prairie Ave.
Anderson, M. McDonald	Milwaukee	745 Milwaukee Rd.
Bates, Lynn Alan	Allison, Ia.	C. H.
Bates, Winifred	Capron, Ill.	E. H.
Beane, Eunice Harriet	Beloit	1205 Emerson St.
Blazer, Gertrude Elizabeth	Beloit	509 Broad St.
Bridgman, Robert L.	Beloit	953 Vine St.
Buck, Homer Allen	Ft. Atkinson	C. H.
Burno, Louis Kelsey	Blue Island, Ill.	745 Milw. Rd.
Canright, Emory M.	Fairmount, Minn.	424 Prospect St.
Caskey, Earl James	Beloit	842 Bluff St.
Chesbrough, Gertrude	Beloit	651 Park Ave.
Christie, Ruth	Austin, Minn.	E. H.
Crawford, Chrissie Louise	Baraboo	E. H.
Currier, Clark	Aurora, Ill.	424 Prospect St.
DeLancey, Mary	Elgin, Ill.	E. H.
Eakin, Eleanor Jane	Elgin, Ill.	E. H.
Emerson, Cordelia	Beloit	736 Church St.
Fuller, Hazel Marguerite	Beloit	511 Public Ave.
Funk, Raymond Oswald	Carver, Minn.	1248 Chapin St.
Gray, Philip Marshall	Chicago, Ill.	1125 Chapin St.
Gregory, Gladys	Beloit	516 College St.
Hartley, Everett Charles	Carver, Minn.	1125 Chapin St.
Howard Blanche Morton	Waupun	E. H.
Kilbourn, Juanita Priscilla	Hartland	633 College St.
King, Charles Rutherford	Watertown	1125 Chapin St.
Krengel, Irving Hubner	Elgin, Ill.	1248 Chapin St.
Learnard, Ralph King	Joliet, Ill.	1248 Chapin St.
Martin, John George	Oak Park, Ill.	1248 Chapin St.
McGarvey, Agnes	Sparta	804 Church St.
McOwan, Amy Arabelle	Yorkville, Ill.	E. H.

Merriman, Kathryn Marion	Beloit	1304 Prairie Ave.
Mills, Margaret Elizabeth	Oak Park, Ill.	E. H.
Murdock, Marjorie	Beloit	551 E. Grand Ave.
Nethercut, Marjorie Warren	Wauwatosa	E. H.
Northrop, Marshall Mills	Beloit	818 Church St.
O'Connor, Richard Goodhue	Whitewater	745 Milwaukee Rd.
Pearsall, Clifford J.	Evansville	1125 Chapin St.
Pierce, Louise Winifred	Elgin, Ill.	E. H.
Raisen, Earl Dalton	Milwaukee	C. H.
Renwick, Henrietta	Warren, Ill.	E. H.
Russell, Marion	Elgin, Ill.	E. H.
Saxton, Lillian M.	Belvidere, Ill.	E. H.
Sayre, Ralph	Beloit	315 Locust St.
Smith, Rebecca	Beloit	649 Harrison Ave.
Sterling, Marie	Austin, Minn.	E. H.
Sullivan, Julia G.	Cherokee, Ia.	E. H.
Sutherland, Arlie	Janesville	E. H.
Theobald, Harold	Evansville	Montgomerie Pk.
Thompson, Edna Mary	Spring Valley, Ill.	E. H.
Thompson, Laura Josephine	Beloit	316 St. Lawrence Ave.
Thornton, Emily	New Bedford, Mass.	E. H.
Turner, Hallie Frances	Albany	E. H.
Wade, Harold	Wrentham, Mass.	Montgomerie Pk.
Wallace, George Allan	Oak Park, Ill.	745 Milwaukee Rd.
Way, Charles Thomas	Fox Lake	424 Prospect St.
Weirick, Bessie Muriel	Beloit	211 St. Lawrence Ave.
Wickhem, Elizabeth Marie	Beloit	1108 Bushnell St.
Willard, Harold Allen	Belvidere, Ill.	1248 Chapin St.
Williams, Mary McKnight	Delavan	E. H.
Williams, Ralph Stephen	Sparta	1248 Chapin St.
Williams, William Pearce	Ewing, Ill.	Hillcrest
Williamson, W. Rowland	Memphis, Tenn.	745 Milw. Rd.
Woodward, Clair Linton	Osage, Ia.	740 Broad St.

Seniors—66

JUNIOR CLASS

Ahlgren, Oscar Alexander	Whiting, Ind.	Hillcrest
Bachus, Arthur Carl	Fort Atkinson,	424 Prospect St.
Barker, Leavitt Randall	Clinton, Ia.	1248 Chapin St.
Barron, Raymond Millard	Newark, Ill.	740 Park Ave.
Bates, Gilbert Marcus	Duluth, Minn.	424 Prospect St.
Batesole, Glen Lyman	Aberdeen, S. D.	Hillcrest
Belding, Grace M.	Janesville.	J. H.
Borden, Alice Holman	Milton	J. H.
Borden, Don Albert	Milton	1125 Chapin St.
Brace, George Quigley	Sparta, Mich.	424 Prospect St.
Brittan, Mary	Beloit	719 Harrison Ave.
Buckley Gladys Elizabeth	Beloit	1249 Emerson St.
Butters, Harold Albert	Ottawa, Ill.	1248 Chapin St.
Clark, Mary Irene	Beloit	653 Park Ave.
Cooke, Benjamin Franklin	Compton, Ill.	740 Broad St.
Corey, Dorothy	DeKalb, Ill.	J. H.
Cuckow, Filmer Stuart	Janesville	C. H.
Cunningham, Cornelius C.	New York, N. Y.	911 Church St.
Dahlberg, Edward Monroe	Cherry Valley, Ill.	C. H.
Day, Clifford Louis	Beloit	950 Park Ave.
Denney, Elliott S.	Aurora, Ill.	745 Milwaukee Rd.
Denney, Ellis Houston	Cedar Rapids, Ia.	745 Milw. Rd.
Douglas, Grace	Brodhead	J. H.
Dudley, Jennie Marion	West Salem	J. H.
Elliott, Arthur Charles	Rochester, Minn.	745 Milw. Rd.
Ferris, Holmes Dunbar	Princeton, Ill.	424 Prospect St.
Fisk, John Lewis	Beloit	763 Milwaukee Rd.
Flexer, Irma Orminda	Joliet, Ill.	E. H.
Fucik, George Charles	Williams Bay	740 Broad St.
Gharrity, Thomas John	Beloit	1132 Partridge Ave.
Gilfillan, William Emmett	Chillicothe, Ill.	Montgomerie Pk.
Grant, Lillian Ward	Southfield, Mass.	742 Church St.
Habberstad, Earle S.	Lanesboro, Minn.	Hillcrest
Halsted, Herbert Foltz	Rockford, Ill.	C. H.
Halverson, Donald L.	Whitewater	1248 Chapin St.
Hammond, Alva M.	Beloit	840 Park Ave.
Haviland, Muriel Pearl	Janesville	748 Prairie Ave.
Hineline, Harry Dale	Beloit	625 Harrison Ave.
Holmstrom, Myrtle Marie	Joliet, Ill.	E. H.
Hoover, James Blaine	DeKalb, Ill.	Hillcrest
Hulburt, Stenneth Chauncey	Beloit	724 Clary St.
Hull, Marjorie	Beloit	725 Euclid Ave.
Hurn, Mark	Union Grove	C. H.
Jacobsen, Edmund Lewis	Pierre, So. Dak.	Montgomerie Pk.
Kelly, Gooding Norton	Wausau	1248 Chapin St.
Kelley, Helen Beardsley	Beloit	723 Prairie Ave.
Lamb, Arthur D.	Chicago, Ill.	Montgomerie Pk.

Lowrey, Alice Irene	Oak Park, Ill.	J. H.
Macklem, Jane Crozier	Beloit	833 Park Ave.
Manthey, Erwin A.	Green Bay	1125 Chapin St.
Marsden, Pearl C.	Janesville	424 Harrison Ave.
Marsh, Corienne Lois	Beloit	850 Hackett St.
Mershon, Harvey Grant	Rockford, Ill.	859 Milwaukee Rd.
Mewhirter, Agnes Bourton	Yorkville, Ill.	J. H.
Munn, Grace Mary	Beloit	528 Bluff St.
Nair, John Henry, Jr.	Oshkosh	Hillcrest
Neill, David Holland	Aberdeen, So. Dak.	Hillcrest
Owens, Esther Melvina	Tracy, Minn.	J. H.
Piggins, Ralph S.	Milwaukee	730 Milwaukee Rd.
Pile, Homer Bennett	Dodgeville	535 Public Ave.
Place, Margaret Ethel	Marinette	J. H.
Radcliffe, Marie Beatrice	West Allis	J. H.
Rau, Ruth Higley	Beloit	757 Euclid Ave.
Roadhouse, Wilbur	Beloit	539 E. Grand Ave.
Rutenbeck, Alvin Elmer	Lost Nation, Ia.	C. H.
Ryon, Harrison John	Charles City, Ia.	745 Milw. Rd.
Sayler, Arthur	Huntington, Ind.	1125 Chapin St.
Shipton, Audus Walton	Woodstock, Ill.	740 Broad St.
Steiner, Roy Stewart	Wauwatosa	Montgomerie Pk.
Stout, Helen Knight	Star, Idaho	J. H.
Taylor, Grace Elizabeth	Delavan	J. H.
Thacher, Luella	Beloit	841 Park Ave.
Tower, Nelle Sarah	Beloit	910 Broad St.
Wade, Esther	Wauwatosa	J. H.
Whittemore, Lola Sybel	Beloit	725 Euclid Ave.
Wilcox, Horace Wilson	Charlotte, Mich.	740 Broad St.
Wilcox, Thornton	Rockford, Ill.	C. H.
Wing, Helen Florence	Elgin, Ill.	J. H.
Worthington, Asenath D.	Beloit	846 Harrison Ave.

Juniors—79

SOPHOMORE CLASS

Adams, Vera Irene	**Beloit**	R. F. D. No. 1
Aldrich, Warren Holder	Rockford, Ill.	1248 Chapin St.
Allen, George Buell	Independence, Ia.	740 Broad St.
Anderson, Gordon Gillett	Milwaukee	1248 Chapin St.
Bailey, Emmet Chester	Beloit	424 Harrison Ave.
Baker, Annie Katherine	Beloit	1064 Harrison Ave.
Bamford, Dotha	Plymouth	731 Harrison Ave.
Barker, Harold Norwood	Battle Creek, Mich.	C. H.
Beckus, Ebba Cecelia	Beloit	R. F. D. 29, Box 9a
Beimer, Eugene Criss	Sac City, Ia.	Hillcrest
Bigelow, Curtis	Flandreau, So. Dak.	740 Broad St.
Birkett, Glenn William	Belvidere, Ill	847 Park Ave.
Blazer, Richard R.	Beloit	509 Broad St.
Bostwick, Sydney Coryell	Janesville	1125 Chapin St.
Brunsvold, Bernice Cornelia	Beloit	928 Vine St.
Burtt, Albert Frazee	Momence, Ill.	Montgomerie Pk.
Candy, Walter Charles	Dakota, Ill.	Hillcrest
Carey, George	Beloit	918 Chapin St.
Carlson, Ellsworth Eugene	Chicago, Ill.	740 Broad St.
Chase, Fay Harold	River Forest, Ill.	848 Euclid Ave.
Collier, Robert, Jr.	Denver, Colo.	C. H.
Copeland, James Henry.	Milwaukee	1248 Chapin St.
Davenport, F. Earle	Chicago, Ill.	745 Milw. Rd.
Dempsey, Arthur V.	Belvidere, Ill.	1125 Chapin St.
Denney, Dorothy	Oak Park, Ill.	E. H.
DeViney, Albert Ferris	Cutler, Ill.	C. H.
Dieckhoff, John Carl	Ft. Atkinson	1125 Chapin St.
Dougherty, Wallace Robert	Glenwood, Minn.	C. H.
Eidam, Arthur Edward	Blue Island, Ill.	745 Milw. Rd.
Evans, Elwyn	Dodgeville	1125 Chapin St.
Evans, Varnum Stuart	Chicago, Ill.	1125 Chapin St.
Ewing, James Goddard	Freeport, Ill.	Montgomerie Pk.
Fairfield, Ronald James	Minneapolis, Minn.	1248 Chapin St.
Farmer, Ermie Ida	Beloit	718 W. Grand Ave.
Flick, Esther Kenyon	Minneapolis, Minn.	E. H.
Flugum, Omar Jacob	Stoughton	C. H.
Frisbie, Florence	Cherokee, Ia.	E. H.
Gavigan, Patrick	Blanchardville	C. H.
Gerth, Etta Burdett	Beaver Dam	E. H.
Habberstad, Claude Clayton	Lanesboro, Minn.	Hillcrest
Hanson, Waldo Gravedale	Beloit	119 W. Roosevelt Ave.
Harrington, Elliott Dean	Elkhorn	C. H.
Hay, Ralph S.	Rockford, Ill.	Montgomerie Pk.
Henry, Harry John	Jefferson	740 Broad St.
Hiller, Hugh Milligan	Kahoka, Mo.	740 Broad St.
Hobart, Harriet Laura	Roscoe, Ill.	Roscoe, Ill.
Hulburt, Clarence Fay	Beloit	724 Clary St.

Hurd, Florence May	Edgerton	E. H.
Jacobson, Theodore LeRoy	Elkhorn	C. H.
Jamieson, Arthur Ames	Poynette	Hillcrest
Johnson, Bertha Rose	Madison	905 Church St.
Johnson, Frank Eskil	Rockford, Ill.	Chapin St.
Jones, Ethel May	Sparta	E. H.
Klesath, Franklin Carl	Dana, Ill.	Montgomerie Pk.
Korst, Donald Burch	Janesville	1125 Chapin St.
Lipman, Theodore Earl K.	Beloit	136 W. Grand Ave.
McArthur, Glenne Roy	Janesville	424 Prospect St.
McInnes, Bessie Croft	Edgerton	J. H.
McLay, Margaret Forrester	Janesville	E. H.
McLean, Alexander Robert	Beloit	1040 Prairie Ave.
McMillan, William Donald	Aurora, Ill.	745 Milwaukee Rd.
McMillin, William Donald	Whitewater	Hillcrest
McOwan, Kenneth Andrew	Yorkville, Ill.	C. H.
Martin, Mildred Victoria	Beloit	538 Broad St.
Means, Charles Edward	Vinton, Ia.	Hillcrest
Merrill, Clyde Holahan	Chillicothe, Ill.	424 Prospect St.
Merriman, Elizabeth Royce	Beloit	1304 Prairie Ave.
Moniot, Burton Henry	Ottawa, Ill.	Hillcrest
Morrisey, Frank Dortland	Bagley	Montgomerie Pk.
Mulholland, Stanley Cliford	Rochester, Minn.	745 Milw. Rd.
Nesemeier, Clarence Harvey	Dakota, Ill.	C. H.
Nethercut, Donald Warren	Wauwatosa	1248 Chapin St.
Nichols, Lucille	Waupun	E. H.
Paige, Hazel May	Beloit	820 Harrison Ave.
Parker, Carolyn Adelaide	Aurora, Ill.	E. H.
Pfisterer, Carl Thomas	Broadhead	Hillcrest
Phillips, Grover Allyne	Mt. Carroll, Ill.	552 Public Ave.
Pike, Mary Elizabeth	Beloit	1005 Chapin St.
Ralston, Carl T.	Caledonia, Ill.	740 Broad St.
Richmond, Lyle Lee	Lacon, Ill.	424 Prospect St.
Riess, Harry John	Jefferson	740 Broad St.
Rosenthal, Abe Louis	Green Bay	C. H.
Sanwick, Mary Christine	Viroqua	E. H.
Schultz, Martin Charles	Bartlett, Ill.	745 Milwaukee Rd.
Sellers, Vinnie	Cherokee, Ia.	E. H.
Shearer, Lloyd James	Steward, Ill.	740 Broad St.
Shedd, Henry Wentworth	Evanston, Ill.	1248 Chapin St.
Sleep, LeRoy William	Waukesha	745 Milwaukee Rd.
Sprague, Philip Tripp	Lockport, Ill.	724 Clary St.
Stallman, Louise Helen	Watertown	E. H.
Stokes, Charles Rooker	Beloit	317 St. Lawrence Ave.
Swansey, Ruth Ellen	Ridott, Ill.	819 Park Ave.
Tear, James DeGraff	Warren, Ill.	C. H.
Torgrim, Willard	Decorah, Ia.	424 Prospect St.
Tracy, Don Wayne	Merrill	470 Broad St.
Tracy, Laura May	Merrill	E. H.

Treat, Alice Esther	Alexandria, Minn.	E. H.
Turner, Wells Eugene	Wausau	Hillcrest
Ward, Frank Harold	Waukesha	745 Milwaukee Rd.
Weigley, Horace Card	Chicago, Ill.	839 Church St.
Weirick, Margaret Marie	Beloit	211 St. Lawrence Ave.
Wendels, Carl Henry	Green Bay	C. H.
Wendels, Henry Schuette	Green Bay.	C. H.
Wilford, Lewellyn Gammon	Beloit	730 Harrison Ave.
Wooley, Zelma Margaret	Streator, Ill.	E. H.
Zimmerman, Irene	Beloit	817 Bluff St.

Sophomores—106

FRESHMAN CLASS

Aldrich, Bruce Bliss	Elkhorn	C. H.
Aldrich, Elwood Harmon	Rockford, Ill.	1248 Chapin St.
Allen, Wayne Henry	Momence, Ill.	Montgomerie Pk.
Anderson, Ellen Pauline	Beloit	834 Lincoln Ave.
Atwood, Isabel	Beloit	618 Eighth St.
Baker, Mignon	Ottumwa, Ia.	S. C.
Baldwin, Philip	Washington, D. C.	1125 Chapin St.
Barker, Wellington D.	Battle Creek, Mich.	C. H.
Barr, Allan Stone	Plainfield, Ill.	1248 Chapin St.
Bartholomew, Mabel Louise	Beloit	522 Eighth St.
Bernetha, Mildred	Rochester, Ind.	S. C.
Bertschy, Charles Edward	Milwaukee	925 Harrison Ave.
Bickford, Harold Joseph	Green Bay	424 Prospect St.
Blayney, Dana Carroll	Hinsdale, Ill.	918 Prairie Ave.
Blodgett, Frank Pickard	Janesville	723 Prairie Ave.
Borden, Nettie Arleen	Milton	S. C.
Bowden, Everett E.	Brodhead	C. H.
Brett, Fred Norris	Green Bay	C. H.
Browne, Frank Thomas	Chicago, Ill.	424 Prospect St.
Bunday, Cyril Wallace	Glenwood, Minn.	C. H.
Burke, Frederic Hammond	Batavia, Ill.	614 Central Ave.
Christopherson, Stanley	Rockford, Ill.	C. H.
Clow, Margaret	Crystal Lake, Ill.	S. C.
Coe, Allen	Clinton, Ia.	1023 Chapin St.
Cole, Emerson	Saginaw, Mich.	C. H.
Conley, Walter Haddon	Rochester, Minn.	745 Milw. Rd.
Cornelius, Teresa	Beloit	852 Highland Ave.
Cornell, Ira Galesworth	Beloit	710 Highland Ave.
Cox, Ethel Marie	Elgin, Ill.	705 Milw. Rd.
Dawson, Harriet Carolyn	Beloit	R. F. D. 28
Densmore, Janet Belle	Beloit	718 Clary St.
Drenning, Eugene James	Beloit	373 W. Grand Ave.
Duteau, Alfred	Merrill	C. H.
Eaton, Aldyth Lillian F.	Beloit	846 College St.
Edler, Raymond Charles	Chippewa Falls	C. H.
Eisenhart, Francis W.	Culberson, Neb.	C. H.
Ellenson, Eugene Angard	Chippewa Falls	431 Park Ave.
Friedrich, Adelbert Anton	Beloit	803 W. Grand Ave.
French, John Melvin	Ottawa, Ill.	625 Harrison Ave.
Furlow, George Willard	Rochester, Minn.	830 Harrison Av.
Gayton, Fred Irwin	Beloit	848 Euclid Ave.
Gibson, Joseph Penn, Jr.	New Lisbon	424 Prospect St.
Hackett, Gordon Varnam	Kenosha	745 Milw. Rd.
Hanna, Philip	Oak Park, Ill.	1248 Chapin St.
Hanscom, John Fletcher	Mineral Point	1125 Chapin St.
Hay, Ellsworth	Beloit	1120 Hubbard Pl.
Helm, Clara Louise	Beloit	734 Broad St.

Hillhouse, Helen	Beloit.	S. C.
Hopkins, Philip W.	West Depere	C. H.
Howard, Lawrence Sherman	Columbus	745 Milwaukee Rd.
Hubbard, Raymond	Elkhorn	C. H.
Jamieson, Jason Harold	Arlington	763 Milwaukee Rd.
Johnson, William Henry	Chicago, Ill.	C. H.
Jones, Grace Marion	Plymouth	1240 Strong Ave.
Judd, Stanley S.	Janesville	745 Milw. Rd.
Keeler, Raymond H.	Elkhart, Ind.	Montgomerie Pk.
King, Lillian Mary	Watertown	S. C.
Kingsley, Alice Sheridan	Oak Park, Ill.	S. C.
Knutzen, Ella Christine	Elgin, Ill.	S. C.
Koch, Ralph Fowler	Lake City, Minn.	424 Prospect St.
Kunkle, Eugene Russell	Lacon, Ill.	740 Park Ave.
Larzelere, Eleanor Elton	Antigo	S. C.
Lee, Burr E.	Beloit	631 Bluff St
Lee, Julian Orville	Clinton	133 Garden Lane
Loescher, George A.	Oshkosh	Montgomerie Pk.
Loomis, Orson E.	Janesville	C. H.
Losh, Edwin	Londonville, O.	Montgomerie Pk.
Macklem, May Elizabeth	Beloit	835 Park Ave.
Martinez, Donald Spiffman	Oak Park, Ill.	1125 Chapin St.
McGavock, Lyla Elizabeth	Beloit	731 St. Lawrence Ave.
McGraw, Harry Eugene	Soperton	C. H.
McQueen, Martha Mabel	Elgin, Ill.	S. C.
Medberry, Locksley Jerome	Elkhorn	740 Broad St.
Mereness, Alice Hazel	Beloit	848 E. Grand Ave.
Mereness, Mildred L.	Beloit	848 E. Grand Ave.
Merriman, Charles Royce	Beloit	1304 Prairie Ave.
Miller, F. Herbert	Aurora, Ill.	911 Church St.
Miller, James C.	Wausau	C. H.
Miller, Theodore Lawrence	Aurora, Ill.	911 Church St.
Miller, Norman Fritz	Iron M'tn, Mich.	1248 Chapin St.
Moore, Lowry Stevens	Beloit	703 Park Ave.
Morrill, Ila Louise	Minneapolis, Minn.	133 Garden L.
Morris, Wyllys K., Jr	Sisseton, S. D.	Montgomerie Pk.
Murkland, Mary Warrington	Beloit	427 Park Ave.
Murphy, Newton S.	Milwaukee	1252 Emerson St.
Murray, Fronie Eunice	Beloit	835 Elm St.
Newman, Frank M.	Ft. Pierre, S. D.	Montgomerie Pk.
Olson, Victor George	Glenwood Minn.	839 Church St.
Owen, Halsey F.	Milwaukee	1248 Chapin St.
Pearsall, Barbara Evelyn	Janesville	E. H.
Philbrook, Harold Coffin	Castine, Me.	C. H.
Pike Helen McArthur	Beloit	1005 Chapin St.
Raithel, Hattie Marie	Ft. Atkinson	1244 Emerson St
Reckhow, Williston E.	Rockford, Ill.	1125 Chapin St.
Reimer, Clarence Charles	Beloit	Rockton Rd.
Rhodes, Stella Ethel	Salem	S. C.

Richardson, Carolyn	Denver, Colo.	829 Church St.
Roberts, Foster Odgers	Shullsburg	763 Milwaukee Rd.
Rogan, Robert Farwell	Rockford, Ill.	740 Broad St.
Rohr, Charles D.	Burlington	745 Milw. Rd.
Roth, John Augustus	Galena, Ill.	424 Prospect St.
Royster, Howard Gilbert	Green Bay	C. H.
Ryan, Joseph E.	Janesville	C. H.
Schmidt, Paul Marvin	Earlville, Ill.	840 Park Ave.
Schneider, Irma	Elgin, Ill.	S. C.
Schweppe, Fern	Medford	S. C.
Sheffield, Frank Herman	Racine	C. H.
Sleep, Carol Augusta	Elkhorn	S. C.
Sleight, Alfred	Elgin, Ill.	424 Prospect St.
Smith, Earl Eugene	Oshkosh	Montgomerie Pk.
Snyder, Mildred Irwin	Clinton	S. C.
Spanswick, Mabel Pearl	Rockton, Ill.	824 Church St.
Spencer, Dean S.	Evansville	C. H.
Stannard, Margaret Knowles	Centerbrook, Ct.	Montgomerie Pk.
Stanton, Helen Angeline	Beloit	562 Broad St.
Stead, Chas. Baldwin	Griggsville, Ill.	C. H.
Sutherland, Frank Everet	Janesville	1125 Chapin St.
Swett, William Stone	Oak Park, Ill.	745 Milw. Rd.
Taylor, Helen Slocum	Janesville	S. C.
Taylor, Lorine Linea	Waupun	S. C.
Taylor, Mary Belle	Avalon	S. C.
Thomas, Albert D.	Eau Claire	625 Harrison Ave.
Thomas, Foster K.	Blanchardville	745 Milw. Rd.
Thompson, Orpha C.	Beloit	385 Euclid Ave.
Todd, James, Jr.	Chicago, Ill.	745 Milw. Rd.
Tope, Oliver Earle	Oak Park, Ill.	1248 Chapin St.
Townsend, Jay Griffith	Racine	1125 Chapin St.
Vance, Richard B.	Joliet	1125 Chapin St.
VanErmen, Louis	Green Bay	563 Broad St.
Vernon, Elizabeth	River Forest	S. C.
Wade, Jeannette	Wauwatosa	S. C.
Wainwright, Doris Harriet	Elgin, Ill.	S. C.
Waldo, Abner Weston	Libertyville, Ill.	740 Broad St.
Walsh, Frances	Beloit	Milwaukee Rd.
Walsh, Marcella	Beloit	State Rd.
Waterhouse, William L.	Aurora, Ill.	C. H.
Webb, Max E.	Ft. Atkinson	Montgomerie Pk.
Webb, Ralph H.	Ft. Atkinson	Montgomerie Pk.
Wehmhoff, Rowland Henry	Burlington	C. H.
West, Roger Clarke	Libertyville, Ill.	740 Broad St.
Williams, Willard	Bristol	C. H.
Wilson, Orpha Roberta	Beloit	605 St. Lawrence Ave.
Wright, Robert M.	Libertyville, Ill.	740 Broad St.
Wuest, Roy E.	Glenwood, Minn.	C. H.

Freshmen—144

SUMMARY

Seniors	66
Juniors	79
Sophomores	106
Freshmen	144
Total	395

DISTRIBUTION OF STUDENTS BY STATES

Colorado	2
Connecticut	1
District of Columbia	1
Idaho	1
Illinois	111
Iowa	15
Indiana	3
Maine	1
Massachusetts	3
Michigan	4
Minnesota	22
Missouri	1
Nebraska	1
New York	1
Ohio	1
South Dakota	6
Tennessee	1
Wisconsin	220

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Rollo L. Lyman, '99 .... Vice-President
Edward H. Light, '06 .... Secretary and Treasurer

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Charles D. Rosa, '98
Robert W. Childs, '99
Ithel B. Davies, '01
Edward H. Light, '06

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Wisconsin Alumni Association

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Oscar Maurer, '03 .... Vice-President
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Rock River Valley Alumni Association

Edward Harold Light, '06 .... Permanent Secretary

Northern Alumni Association

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John H. Mills, '75 .... Vice-President
Earl A. Patterson, '06 .... Secretary and Treasurer

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James A. Blaisdell, '89	Vice-President
Walter W. Smith, '10	Treasurer
Byrdie Eustis, '10	Secretary

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Annie W. Teall-Thompson, '03	President
Carrie Anderson-Traner, '08	Vice-President
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Margery E. Wilder, '05	Recording Secretary
Clara Titus-Brown, '01	Treasurer
Margaret Goodwin, '10	Chairman Entertainment Committee
Alice Kent, '02	Chairman of Loan Fund Committee

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BELOIT DAILY NEWS PRINT

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4/15.

1915

BELOIT COLLEGE BULLETIN

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Catalogue

1914—1915

Published by
BELOIT COLLEGE
Beloit, Wisconsin

Corporate Name

The corporate name of Beloit College for use in all wills, bequests and gifts is "THE BOARD OF TRUSTEES OF BELOIT COLLEGE."

Correspondence

Address the **Registrar of the College**, for

Information regarding admission, accrediting of schools, certificates and examination.

Address the **General Secretary of the College** for

Catalogues and other publications of the College.

Accommodations in dormitories.

Extension lectures.

Address the **Editor of the Catalogue** for

Information concerning Alumni.

Send all deposits and other payments to BELOIT COLLEGE, to which all checks should be made payable.

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5 MAY 1915

SIXTY-EIGHTH

Annual Catalogue

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Issued as VOL. XIII, No. 4.

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BELOIT, WISCONSIN
March, 1915.

1914

JULY

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DECEMBER

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1915

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JANUARY

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College Calendar

1914

September 22, Tuesday	Examinations for Admission Registration of Freshmen, 9:00 A. M. to 4:00 P. M.
September 23, Wednesday	Registration of Upper Classes, 9:00 A. M. to 4.00 P. M. First Semester begins: Convocation 4:30 P. M.
October 16, Tuesday	Meeting of the Board of Trustees
October 17, Wednesday	Big Hill Day
November 25, Wednesday	Recitations close, 12:00 M.

THANKSGIVING RECESS

November 27, Friday	Recess closes, 12:00 M. Registration, 1:00 to 3:00 P. M.
December 23, Wednesday,	Winter Recess begins, 12:00 M.

1915

WINTER RECESS

Jauuary 7, Wednesday	Winter Recess closes, 1.30 P. M. Registration, 1:00 to 3:00 P. M.
January 19, Tuesday	Meeting of the Board of Trustees
January 27, Wednesday	Election of Studies for Second Semester.
January 28, Thursday	Day of Prayer for Colleges
February 10, Wednesday	First Semester closes, 12:00 M. Second Semester begins: Registration 1:30 to 6:00 P. M.
February 19, Friday	Matriculation
March 27, Friday	Spring Recess begins, 12:00 M.

SPRING RECESS

April 6, Tuesday	Spring Recess closes, 1:30 P. M. Registration, 1.00 to 3:00 P. M.
April 19, Tuesday	Meeting of the Board of Trustees
May 26, Wednesday	Election of Studies for First Semester, 1915-1916
May 30, Sunday	Memorial Day
June 1, Tuesday	Essays in competition for prizes due
June 17, Thursday	Final Chapel Exercises
June 20, Sunday	Address before the Christian Associations 10:30 A. M. Baccalaureate Sermon, 5:00 P. M.

June 21, Monday	Alumni Luncheon, 12:30 P. M.
June 22, Tuesday	Rice Extemporaneous Speaking Annual Meeting of the Phi Beta Kappa Class Day Exercises
June 23, Wednesday	Commencement Day Graduation Exercises, 9:00 A. M. Corporation Dinner, 12:30 P. M.

SUMMER VACATION

September 14, Tuesday	Examinations for Admission Registration of Freshmen, 9:00 A. M. to 4:00 P. M.
September 15, Wednesday	Registration of Upper Classes, 9:00 A. M. to 4.00 P. M. First Semester begins: Convocation 4:30 P. M.
October	Big Hill Day
October 19, Tuesday	Meeting of the Board of Trustees
November 24, Wednesday	Recitations close, 12:00 M.

THANKSGIVING RECESS

November 26, Friday	Recess closes, 1:30 P. M. Registration, 1:00 to 3:00 P. M.
December 22, Wednesday	Winter Recess begins, 12:00 M.
January 5, Wednesday	Winter Recess closes, 1.30 P. M. Registration, 1:00 to 3:00 P. M.

1916

WINTER RECESS

February 2, Wednesday	First Semester closes, 12:00 M. Second Semester begins: Registration, 1:30 to 6:00 P. M.
February 11, Friday	Matriculation
June 14	Commencement Day

NOTES—For students who are conditioned or who have work to make up, examinations are held during the spring recess and the summer vacation. These examinations, for which a schedule is posted two weeks in advance, begin on the first Friday afternoon of the spring recess and the final Monday afternoon of the summer vacation. All who have work to make up must present themselves at the hours scheduled.

B41H
1914-15.

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1463 Emerson St.

JOHN FORSYTH CRAWFORD, B.D., PH.D., *Professor of Philosophy.*
726 Milwaukee Road

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* Absent during second semester, 1914-1915.

† Absent during first semster, 1915-1916.

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Emerson Hall

ANDREW FRIEDLY MCLEOD, PH.D., *Associate Professor of Physical Chemistry.* 719 Harrison Ave.

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1464 Emerson St.

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715 Church St.

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Chapin Hall

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MARY LOUISE SAWYER, B.S., *Assistant in Biology.* 839 Church St.

HOMER ALLEN BUCK, B.S., *Assistant in Chemistry.* 739 Parker Ave.

Exchange Professors and Lecturers

AT BELOIT COLLEGE

LAWRENCE JOSEPH HENDERSON, A.B., M.D., *Assistant Professor of Biological Chemistry in Harvard University.* Exchange Professor, Second Semester 1914-1915.
Cambridge, Massachusetts

BISHOP WILLIAM FRAZER McDOWELL, D.D., LL.D., *Lecturer on the Porter Missionary Foundation.* First Semester 1914-1915. Chicago, Illinois

ABRAM RAY TYLER, A.G.O., *Lecturer on the George Greiner Schneider Foundation.* First Semester 1914-1915.
Detroit, Michigan

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ROBERT KIMBALL RICHARDSON, PH.D., *Professor of History.* Lecturer at The University of Illinois, Summer Session 1914-1915.

ROYAL BRUNSON WAY, PH.D., *Professor of Political Science and American History.* Exchange Professor at Harvard University, First Semester 1915-1916.

CHARLES AARON CULVER, PH.D., *Professor of Physics.* Research Fellow at Harvard University, Second Semester 1914-1915.

KARL TINSLEY WAUGH, PH.D., *Squier Professor of Psychology and Philosophy.* Lecturer at Colorado University, Summer Session, 1914-1915.

JOHN FORSYTH CRAWFORD, B.D., PH.D., *Professor of Philosophy.* Lecturer at the University of Chicago, Summer Quarter, 1914-1915.

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On Catalogues and Bulletins: Professors Smith, Waugh, Wells, Mr. Ballard.

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On Delinquencies: The Dean, the Dean of Women, Professors Densmore, Smith, Menger.

On Faculty Meetings: Professors Calland, C. D. Crawford, Dubee, Kunkel, McLeod.

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On Schedules: Professors Richardson, Deane, Hamilton, Mr. Myers.

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For the Class of 1918: Professor Burr, Chairman; Professors Calland, Clancy, J. F. Crawford, Dubee, Hamilton, McLeod, Richardson, Wells, Wright, Mr. Ballard, Mr. Hedges.

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JOHN ALLEN ELLINGSON *Superintendent of Buildings and Grounds.*	Campus

Assistants

M. Belle Alexander 1225 Chapin St.
Assistant to the Treasurer.

Alda Fluekiger, B.A. 756 Bluff St.
Assistant to the Dean.

Edith G. Kull 327 W. Grand Ave.
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Assistant to the General Secretary.

Marjorie Murdock, B.A. 747 Park Ave.
Assistant in Art Hall.

Gertrude Moss Chesbrough, B.A., 632 Church St.
Assistant to the Recorder.

Office Hours

The President — President's rooms, Library, 9:00 to 10:00 A. M. except Saturday.

The Dean — Dean's office, Middle College, 4:30 to 5:30 P. M., except Saturday.

The Dean of Women — Emerson Hall, 12:45 to 1:15 daily. Library, 10:05 to 11:00 Monday, Wednesday and Friday.

The Registrar — Registrar's office, Middle College, 4:00 to 4:30 P. M., except Saturday.

The Recorder — Recorder's office, Middle College, 9:00 to 10:00 A. M., except Saturday.

The Treasurer — Middle College, 9:00 to 12:00 A. M., and 1:30 to 4:30 P. M., except Saturday afternoon.

The General Secretary and Employment Bureau—Middle College, 8:30 to 12 A. M., and 1:30 to 5:00 P. M.

Origin and Development

AS early as 1843 there was some discussion of the need and possibility of a college for the new region opened to settlement by the Black Hawk war in the Northwest Territory. In June, 1844, a general convention of Congregational and Presbyterian churches in the Northwest was held at Cleveland, Ohio, at which education received much attention. Returning delegates decided to call a convention in Beloit in August, 1844, to plan for the location of institutions for Wisconsin, Illinois, and Iowa. Three more conventions were held—all in Beloit, for it was felt from the outset that Beloit was the most favorable place for a college in Wisconsin. The first meeting of the trustees was held October 23rd, 1845.

The charter of the college, approved by the Governor of the Territory of Wisconsin, February 2nd, 1846, is as follows:

Be it enacted by the Council and House of Representatives of the Territory of Wisconsin:

SECTION 1. (That) Rev'ds A. Kent, D. Clary, S. Peet, F. Bascom, C. Waterbury, J. D. Stevens, A. L. Chapin, R. M. Pearson, Messrs. G. W. Hickox, A. Raymond, C. M. Goodsell, E. W. Potter, L. G. Fisher, W. Talcott, Charles S. Hampstead, and Samuel Hinman and their successors be, and they are hereby created, a body politic and corporate to be styled THE BOARD OF TRUSTEES OF BELOIT COLLEGE, and by that name to remain in perpetual succession, with full power to sue and be sued, plead and be impleaded, to acquire, hold, and convey property, real and personal; to have and use a common seal, to alter and renew the same at pleasure; to make and alter, from time to time, such by-laws as they may deem necessary for the government of said institution, its officers and servants: *Provided*, such by-laws are not inconsistent with the constitution and by-laws of the United States or of this Territory; also to have power to confer on those whom they may deem worthy, all such honors and degrees as are usually conferred in like institutions.

SECTION 2. That the said College be located in the township of Beloit, Rock County, and shall be erected on a plan sufficiently extensive to afford instruction in the liberal arts and sciences; and the trustees may, as their ability shall increase, and the interests of the country require, erect any or all of the different departments for the study of the liberal professions, in such locations as may be most feasible, in the town of Beloit.

SECTION 3. That the board of trustees shall have power to appoint a president, vice-president, treasurer and such agents as they may deem necessary, and shall fill all vacancies that may occur in their own board, by (expiration of term), resignation, death or neglect for more than one year to attend to the duties of the trustee; also, to prescribe and direct the course of studies to be pursued in the institution and its departments.

SECTION 4. That the board of trustees shall consist of sixteen members, with power to increase their number to twenty-four; and (any) seven of whom shall constitute a quorum for the transaction of business. Said board of trustees shall hold their first annual meeting in the township of Beloit, on the fourteenth day of April, 1846, and afterwards they shall meet on their own adjournments; but in cases of emergency the President, with the concurrence of two trustees, may call a special meeting, or any five members may call such meeting by giving notice to such (each) member at least ten days before the time of such meeting.

SECTION 5. That the board of trustees shall faithfully apply all funds by them collected or received, according to their best judgment, in erecting suitable buildings, supporting the necessary officers, instructors and servants, in procuring books and apparatus, necessary to the success of the institution; *Provided, nevertheless,* That in case any donation or bequest be made for particular purposes, which accord with the designs of the institution, and the corporation shall receive and accept the same, every donation or bequest thus made shall be applied in conformity to the conditions or designs expressed by the donor.

SECTION 6. That the treasurer of the institution shall always, and all other agents when required, before entering upon the duties of their appointments, give bond for the security of the corporation, and of the public, in such penal sums, and with such sureties as the board of trustees shall approve.

SECTION 7. That no religious tenets or opinions shall be requisite to entitle any person to be admitted as a student in said college, and no such tenets or opinions shall be required as a qualification for any professor, tutor, or teacher of said college, and no student of said college shall be required to attend religious worship in any particular denomination.

SECTION 8. The Legislature shall have full power to alter, amend or repeal this act at any time, without any judicial investigation, and vested rights to the contrary notwithstanding.

Approved, February 2, 1846.

Subsequent amendments have increased the number of Trustees to thirty, divided into three classes, each of which serves three years, nine of whom should constitute a quorum; and have removed the requirement that all departments of the college be located in Beloit.

Middle College, the first college building, was begun in the autumn of 1846. The first Freshman class began work November 4th, 1847, under the instruction of Mr. S. T. Merrill, reciting in the basement of the old stone church and later in a private house. Professor J. J. Bushnell came in April and Professor Joseph Emerson in May, 1848; Professor William Porter in September, 1852; Professor J. J. Blaisdell in September, 1859. Rev. Aaron L. Chapin was elected president, November 21st, 1849, and was inaugurated July 24th, 1850. On his resignation of the presidency, June 29th, 1886, Rev. Edward D. Eaton was elected his successor, and was inaugurated November 4th, 1886. December 31st, 1905, President Eaton resigned his position, on account of impaired strength, but was recalled to the College early in 1907, and was re-inaugurated, after a period of rest, on March 4th, 1908.

The funds of the college have been steadily enlarged; new buildings have been erected to meet its growing needs; and the number of students and teachers has more than kept pace with the increase in equipment. Since the first class, consisting of three men, was graduated in 1851, there has been no break in the succession of graduating classes. Until 1874, only a classical course was offered; in that year a philosophical course was added which was discontinued in 1900; the science course was introduced in 1892. The Chapel building, dedicated in 1892, gave an appropriate centre for the religious life of the college. Pearsons Science Hall, completed in 1893, furnished extensive facilities for work in the Sciences and opened the way for marked development in this direction. Women were admitted to the college classes in September, 1895, and were first graduated in 1898. In 1898 also, Emerson Hall was completed to provide accommodations for the young women. The opening of the Smith Gymnasium in 1904, and of the Carnegie Library in 1905, mark further steps in the equipment of the institution for its expanding life.

Since the College was founded, over six thousand young men and young women have been enrolled as students in its classes, of whom 1,366 have been graduated.

The founders and most active early friends of Beloit College were chiefly Congregationalists and Presbyterians; it has always had warm support from members of various Christian bodies, and from others who have appreciated the importance of its service in training for efficient citizenship. From the time of its founding until now it has always represented a non-sectarian but fundamental Christian influence. It was established with the conviction that thoroughness in education is as good a thing for the West as for the East, and that such a thorough and rounded education must combine learning, morality, and religion.

The earnest endeavor is made to teach the heart as well as the mind, and to give a personal care that shall reach the individual needs of every student. The lives and the work of its former students constitute the best evidence of its spirit and its success.

Buildings and Equipment

Beloit College is located at Beloit, Wisconsin, near the southern boundary line of the state. Beloit is a thriving city of about seventeen thousand population, situated on the Rock River; it is at the junction of the Chicago and Northwestern and the Chicago, Milwaukee and St. Paul railroads and is in the center of a prosperous farming section. It has several large manufacturing esablishments; has ample railroad, postal and telegraph facilities and, while sufficiently large to meet all ordinary requirements for modern life, does not offer the distractions of the great cities.

The college buildings are located on high gravel bluffs east of Rock River, and the dormitories and other buildings are drained and dry all the year through. The city of Beloit has an enviable record for general healthfulness—a record made possible by its fine water supply, excellent sewer system, the porous soil beneath, and the general elevation above the river level.

GROUNDS

The college grounds, including the College Campus on which are located most of the College buildings, and the grounds for the women's dormitories to the north of the main campus, comprise about forty acres located on high ground and well covered with trees. The large athletic grounds, known as College Field, are situated half a mile to the east.

The buildings have been named in most cases, for the principal donor of funds for their erection.

MIDDLE COLLEGE

Middle College, the original college building, the cornerstone of which was laid in 1847, is located in the center of the College Campus. It is a brick building of four stories.

On the first floor are the administrative offices of the Dean, Treasurer, General Secretary, Registrar and Recorder.

On the second and third floors are recitation rooms and on the fourth floor are rooms fitted up for use of the College literary societies.

THE COLLEGE CHAPEL

The College Chapel, largely the gift of the late Mrs. A. E. Doyon of Madison as a memorial to her mother, Mrs. J. S. Herrick, was erected in 1892, and is the center of the religious gatherings of the College. It is built of Wauwatosa limestone and is surmounted by a clock tower. On the main floor is the large auditorium capable of seating 500 persons for the daily chapel and the Sunday Vesper services. There are two conference rooms adjoining, which can be opened into the main auditorium, and the President's private room.

In place of the two-manual organ heretofore used in the chapel a fine three-manual organ was installed in 1914. It has electro-pneumatic action, a movable console, and one hundred stops, combination pistons and mechanicals. The "Cathedral Chimes" are among its unusual and attractive features. The power and charm of the organ add greatly to the interest of the College services.

CARNEGIE LIBRARY

The beautiful library building, given to the College in

1904 by Mr. Andrew Carnegie, occupies a site on the east side of the campus, south of the Chapel. It is of cut Bedford stone and is practically fireproof, the stack-room being wholly so. The building is of the Renaissance style of architecture, 95 by 75 feet, with two stories and basement. On the main floor is the delivery room, adjoining which are the metal stacks, accessible to the students for reference. On either side are reference and periodical rooms, with smaller side rooms for consultation and administrative purposes. In the basement are rooms for receiving and distributing books, for files of newspapers and periodicals, and for storage.

On the second floor are consultation rooms and a large reading room reserved for the use of the Senior class. The President's executive offices are on the second floor on the south side.

The library is open, in charge of attendants, from 7:40 A. M. to 12 M., and from 1:00 to 6:00 and 7:00 to 9:30 P. M., each week-day.

The present number of books is about 52,900 bound volumes and 38,500 pamphlets. Between 2,000 and 2,500 volumes are added each year by gift or purchase. These figures include the United States public documents, for which the library is a depository. The income from the following funds is devoted to the purchase of books:

Academy Library Fund (Pedagogy)	$ 500
Bushnell Fund (Astronomy and Mathematics)	500
Colton Fund, (Economics)	5,000
Davis Fund (English Literature)	500
Dunbar Fund (Chemistry)	100
Knowlton Fund (General)	500
Mayher Fund (Chemistry)	1,000
Ryland Fund (General)	4,000

Henry D. Smith Fund (Public Speaking)	1,000
Talcott Fund (Science)	5,150
Total	$18,250

The Henry M. Whitney Fund, in memory of Professor Whitney, already amounts to the sum of $2,000.00, the income from which is to be used for the purchase of books for the department of English Literature; it is hoped that this sum will be increased to $5.000.00 in the near future.

The income from these funds is supplemented by appropriations from the College treasury, generous annual gifts by Mr. Horace White, and occasional gifts from many generous friends of the College.

Particular care is given to enabling the students to use the library to the best advantage. The books are arranged according to the Dewey decimal classification system and catalogued by card-index. All students have free access to the shelves, and may draw books from the library under the usual restrictions. Books that are in constant use by the students in the several classes are placed on reserve shelves where they are equally accessible to all concerned. Poole's Index facilitates the use of the bound periodicals, of which the library contains several thousand volumes. The library is well supplied with the standard works of reference. In the reading-room are the current numbers of the leading literary and scientific journals, with the best of the magazines and weeklies and several dailies. The number of periodicals received is now 235, many of which are the gift of the Archæan Union. The general equipment of the building is such as to make it a convenient and attractive place for study.

A separate departmental library containing many of the books relating to the sciences is kept in Science Hall.

The resources of the Beloit Public Library, which contains about 15,000 volumes, forms a valuable supplement to those of the College Library, especially in the field of fiction and popular literature. They are freely accessible to college students, who make large use of them.

SCOVILLE HALL

Scoville Hall, the gift of the late James W. Scoville of Oak Park, Ill., was built originally to accommodate the Beloit College Academy. It is a beautiful brick building with heavy brown-stone trimmings and is located at the extreme southern end of the campus. There are two floors with high roof story and deep basement; on the first floor are three recitation rooms for Public Speaking, Rhetoric, and German, and a comfortable rest room for the young women. On the second floor is the room used by the Music department, as well as a large auditorium seating three hundred, which is used for musical recitals and other college purposes; there is a smaller auditorium adjoining, which can be opened into the larger. A room on the north side of the third floor is used for classes in Astronomy.

The Psychological laboratory occupies the main part of the third floor. Through the gift of the Trustees of the William E. Hale fund, devoted to the advancement of scientific research, the College enjoys the use of considerable apparatus for psychological study. This apparatus includes a Hipp chronoscope, Mosso ergograph, control drop, sphymograph, pneumograph, Marey tambours, electric time-markers, kymograph and accessories. The above material has been added to by the purchase and manufacture of much material for the study of the senses, all of which is available for demonstration and for elementary practice in the courses in Experimental psychology.

NORTH COLLEGE

The North College is a three-story brick building with basement. Each of the three floors is used for recitation rooms; the basement has been fitted up recently for the College Center, an institution managed by the students where all college men can come together in a social way. The rooms are attractively furnished and are supplied with magazines and periodicals.

PEARSONS SCIENCE HALL

The College is indebted to the generosity of Dr. D. K. Pearsons for this noble building for the physical sciences. The edifice is two stories in height, with roof-story and high basement, making substantially four stories. It has an east frontage of 136 feet, with north and south wings extending back 115 feet, and forming the sides of an open court. The inside walls are finished in brick, and slow-burning construction has been used throughout, thus greatly reducing the danger from fire. All the rooms are planned with reference to convenience, ventilation, and light. Gas and water are carried wherever they are needed. On the first floor is an auditorium for lectures and meetings of various sorts, with seats for three hundred persons; this large auditorium is fitted with a permanent projection lantern. A room on the first floor is provided for a mathematics and science library. In this are kept such standard reference books as are likely to be needed in connection with laboratory and class work. The room is also equipped for study and is accessible to students pursuing advanced courses.

The department of Physics occupies four rooms on the first floor and three rooms of the basement on the south side. A lecture room, an apparatus room ,a research laboratory, and an office are located on the first floor. A large general laboratory, a dynamo-room and shop, and an optical and photographic dark-room are situated on the basement floor.

The department is thoroughly equipped with modern apparatus for demonstration and experimental use, including electrical and optical instruments of precision.

In conjunction with the department of Astronomy the department of Physics maintains a wireless telegraph time service. By means of this service time signals are sent out daily to educational institutions, newspapers, and a number of commercial firms located within a radius of one hundred miles.

On the first floor a room has been fitted up for Mechanical Drawing and Surveying. It has drawing tables and boards and a filing cabinet, and is lighted with drop incandescent lights. The Surveying outfit contains four engineer's transits, an engineer's compass, a Burt solar compass, a Sægmuller solar compass, Y-level, two Dumpy-levels, plane-level, planimeter, tapes, tape-testing apparatus, stadia-rods, leveling-rods, sextant and horizon, and various minor instruments for field and office work.

A Mathematics room and office are situated on the first floor and a second Mathematics room in the basement. The department is equipped with a stock of the latest models of German and American make for illustrative work in class.

The department of Chemistry is located in the north wing and occupies two floors and the basement. On the first floor are the lecture-room, balance-room, quantitative laboratory, a smaller laboratory, store-room, and the professor's private room.

On the lower floor are a large laboratory for qualitative analysis, a second laboratory for organic and special work, a sulphuretted hydrogen room, dark room, and a room for the instructor. In the basement are larger store rooms.

All of the laboratories are fitted with tables and appliances of the best construction. The lower laboratories have recently been refitted at considerable expense and provided with flues exhausted by motor fan; the capacity of the fan is such that the air of the whole lower floor is changed every three minutes. A second electric exhaust fan is placed in the flues leading from the laboratory on the first floor.

The equipment of the department includes lecture apparatus for illustrating special subjects. Also many special pieces of apparatus are provided for the use of students in laboratory work. There are four fine analytical balances and seven suited for the advance work in General Chemistry. A large stock of chemicals and duplicate apparatus is carried so that each student is well supplied for individual work both in the earlier classes and the later more difficult analytical and research work.

The department of Geology occupies the second and third floors of the south wing. The department is a depository for all maps, documents and specimens issued by the United States Geological Survey. The library is unusually complete and well equipped with reference books needed for advanced study.

There are large collections of rocks and minerals illustrating the different types of structure and texture needed for laboratory purposes. Another large series represents the different geological periods in various parts of the globe. The College owns an exceptionally complete series of fossils, including all that are necessary for a thorough understanding of the past life of the globe. Each period of geological history is well illustrated by the characteristic fossil forms. The department is equipped with a lantern and numerous lantern slides for illustrating different geological features and phenomena.

The departments of Botany and Zoology occupy the second and third floors of the north wing and central portion of Pearsons Hall. The laboratory for general Biology and Zoology is admirably lighted by east and west windows and skylight overhead. The room is adequately equipped to accommodate fifty students at one time; it has a large aquarium table with running water, arranged for keeping living material under normal conditions. In the north wing on the second floor are situated the laboratories for History, Embryology, and Plant Morphology. The laboratory for Plant Morphology is equipped to accommodate thirty students; the laboratory for Histology and Embryology has provision for twenty.

The laboratories for experimental Plant Physiology and Comparative Anatomy of vertebrate animals are located on the third floor. The laboratory for Physiology is furnished with a large experimental table accommodating twenty-five students and with soil benches and aquaria for the growth of the living material used in the experimental work. The apparatus for Plant Physiology includes clinostats, auxanometers, glass-ware, chemicals, and other necessary appliances for physiological experiments. The department of Biology is equipped with sixty compound microscopes, a projecting lantern, microtomes, wall charts and all necessary apparatus for doing modern work in Botany and Zoology.

SMITH OBSERVATORY

Smith Observatory, erected by the late Mrs. J. S. Herrick, in memory of her brother, is a separate stone structure. It is well equipped for practical astronomical work, being provided with the following apparatus: Clark equatorial telescope of 9.5 inches aperature, mounted by Warner and Swasey, provided with micrometer, spectroscope, etc.; transit instrument of 2.5 inches aperture; Thomas mean-time clock; Howard sidereal clock; Negus chronometer; Fauth & Co., chronograph electrically connected with sidereal clock and transit instrument; sextant; levels, etc.

There is a well-selected astronomical library of about 750 volumes containing files of most of the standard American and foreign astronomical journals, as well as the usual standard texts and references. There are also complete outfits for projection work, including more than four hundred lantern slides, among which are the most celebrated views of celestial objects. The observatory will be open to visitors by previous arrangement with the director.

THE SMITH GYMNASIUM

The Smith Gymnasium for men, which is one of the most attractive buildings on the campus, was erected in 1904-5 as a memorial to the late E. D. Smith of Menasha, Wis. It is built of vitrified brick, and is thoroughly adequate in its proportions and appointments for systematic physical training. The plans for the building were matured after a thorough study of some of the best gymnasium buildings in the country.

In the basement are a swimming pool sixty feet long, shower baths, drying-room, Varsity room and a special dressing-room for visiting athletic teams. On the first floor is the main locker-room, fitted with 200 individual lockers with improved devices. This room is connected with the main bath-room, which is provided with shower- and tub-baths and a lavatory. Opening out of this room is a special dressing-room for visiting athletic teams. On the first floor also are the reception and examining rooms and the director's room. On the second floor is the main gymnasium 105 by 51 feet; this is completely fitted with all modern forms of apparatus for heavy gymnastics and special work. There has recently been installed a large amount of new apparatus, including a twine batting cage. In the main gymnasium is a solidly constructed running-track with a visitors gallery.

MEMORIAL HALL

Memorial Hall, built in commemoration of the graduates and students of Beloit College who served in the Civil War, is a high stone structure containing two floors and a basement. The building is covered with a slate roof and is semi-fireproof. On the first floor is the more valuable portion of the Logan Archæological Museum, systematically arranged; the second floor has been fitted up with large cases to properly display all the remainder of this remarkable collection and care for the large accessions constantly being made.

THE ART HALL

The Art Hall, formerly the College Chapel, is a two-story, cream-colored brick building located south from the Middle College. On the first floor are two rooms: one is devoted to the Fisher collections described more fully under Art Collections; the other contains the Art Library and photographs and is also used by the Curator for purposes of administration. On the second floor are the general collections of art suitably arranged.

THE COLLEGE MUSEUMS

The equipment of the College in illustrative material has always been a distinctive feature. Even when the class work was done in the narrow space of Middle College, place was found for valuable collections of rocks, minerals, fossils and natural history specimens, and the first building of any pretentions was planned to house the library, and the material equipment then called the College Cabinet. This equipment has steadily grown until its treasures fill all available space in the buildings provided for them. They are differentiated into the following museum collections:

THE ART COLLECTIONS

The College is fortunate in the possession of art collections of unusual richness and variety.

The Fisher Collection of Greek casts, which occupies the entire lower hall of the Art gallery, is of great value, not only to students of Greek art and life, but for the general culture of the College and the community. It consists of one hundred and twelve casts of unique Greek sculpture, presented by Mr. Lucius G. Fisher, Jr., in memory of his honored father, long a trustee of the college. Carefully selected by eminent archæologists, and cast in moulds from which these are the first impressions, it furnishes original examples of the progress of Greek sculpture from its first rude beginning to the nobility of the fine Greek art of Phideas, the original grace of Praxiteles, and the colossal Roman strength of later days. In addition to the Greek casts, there are three hundred pieces of statuary and reliefs, ancient, mediæval, and modern, making a total of over four hundred casts.

Arranged among the general collections are a large number of landscapes and other oil paintings.

The most noteworthy additions to the Art Hall collections during 1914 were a portrait of Dr. Peter McVickar, of the class of 1856, President of Washburn College for many years, by Grenhagen; a portrait of Dr. Henry Burton of the Class of 1862 by Walter Richards, and a portrait of Mr. F. G. Logan, Trustee of Beloit College, also by Grenhagen. A cast of Dr. Martin Luther was also added to the sculpture collection.

The Mary Ripley collection, received in 1912, includes over 2,000 books, many of them limited editions in rare and beautiful bindings, illustrating the history of art in all lands; about 2,000 lantern slides illustrating life in China, India and Ceylon; and upwards of 11,000 photographs, many of them finely colored.

Other engravings and photographs, gathered by Mrs. Emerson, the curator, representing the art, scenery and literature of all countries, number over 20,000.

The total of over 5,000 volumes and 31,000 photographs equals that of the oldest and largest collection in our country.

THE LOGAN MUSEUM OF ARCHAEOLOGY

The Logan Museum, comprising one of the largest collections of aboriginal artifacts in America, fills all available space in Memorial Hall. These articles, numbering about 100,000 specimens, occupy about 4,000 feet of floor and wall space, 2,400 feet of this being under glass. The material is grouped into fourteen schedules. Of these the flints number between 40,000 and 50,000, including 30,000 arrow points, 5,000 spear points, 5,000 knives and flakes, 2,000 ornamental forms. The ground stone forms number about 4,000; 1,200 grooved axes, 900 celts, 600 special and ornamental forms, 400 hammers and mealing stones, etc. The copper artifacts number 950. Of pottery there are 1,200 pieces, representing Mexican, Californian and Pueblo ware, the work of the Mississippi mound builders, articles from Panama, from Japan, and other places. The utensils of wood, iron, bone, horn and shell are illustrative, while the bead and leather work, basketry, textile fabrics, musical instruments, carvings, ornaments and weapons are very instructive. Several hundred artifacts have been added during the past year, notably 300 hammer stones collected from the immediate vicinity, hundreds of flint chips from an old Indian workshop near the city, and about 500 specimens from Florida shell mounds. The most striking displays in this museum are the bead and basketry cases, the plaster casts of Aztec carvings, the Indian busts, the arrow points, axes and mortars.

THE GEOLOGICAL COLLECTION

These collections find place on the second floor of the south wing of Pearsons Hall where about 2,500 feet of floor space is given to this display. About 200,000 specimens are here included. Beginning with the earliest known fossil, the *Eozoon Canadense* of the Canadian Laurentian, the representation is complete through all ages and formations to the present.

Of Palaeozoic life there is the full range from Potsdam to Carboniferous, mostly from Wisconsin and states adjacent supplemented by forms from the Appalachian region.

From Mesozoic strata there are marine fossils from the Atlantic coast, brackish water types from Colorado and Texas and representative collections of huge Saurian bones from Wyoming. Cenozoic time is represented by about 150,000 specimens of marine life from California, 4,000 specimens of mammals and bird bones from the asphalt beds of Los Angeles, and some local sources. Foreign geologic life is fully represented by two large collections, one of over 500 species, typical forms from each of the geologic horizons; the second series contains about 300 species of Ammonites illustrating the development of that order through the full cycle of its life history.

The collection presents several unique features, notably sandstone slabs, bearing wavy trails supposed to be trilobite tracks, about fifty natural casts, hundreds of specimens of fossil ferns, the complete series of recent marine fossils from California, and complete skeleton forms of the extinct bison, tiger, and giant wolf.

A large amount of local material has been added during the year, the outcome of field work done by the College classes. Much of this is valuable surplus material which has been properly classified and arranged and is available for exchange for specimens desired to complete the College collections.

THE MINERALOGICAL COLLECTIONS

These are arranged in several rooms in Pearsons Science Hall. Many ores, minerals and crystal forms occupy cases in the Chemical department; another collection finds place in rooms adjacent to the Geological lecture room, and a large collection of lithological specimens is kept in the store rooms on the third floor. These collections represent in an interesting manner the steady accumulations throughout the whole life of the College. The oldest collection of rocks, ores, and minerals was brought together by the first College instructor before the institution was really founded; The Nason collection, including thousands of specimens was next added; later additions include suites of minerals, ores, and rock specimens from the Wisconsin and Michigan State surveys; others are from the far West, Mexico, Ontario, British Columbia, Sweden, Russia and Japan. Supplementing these are special series; the Russel, Foote, Ward, Kuntz, U. S. Geological Survey, and three considerable European collections.

Among the most striking forms are beautiful crystals of Calcite, Quartz, Gypsum, and Pyrites; huge masses of Copper, Silver, and Lead ores; fossil tree trunks from Arizona; columns from the Giants Causeway; agate geodes, stalactites; polished sections of granites, onyx, marble and ornamental stones. A very important part of this material came from the national exhibits at the World's Fair in Chicago.

THE BIOLOGICAL COLLECTIONS

The Biological Collections of illustrative material are for the present placed in Science Hall. A very large collection of marine shells, corals and echinoderms are arranged in wall cases in the corridors. Here on 250 feet of shelf room, behind glass, are over 1,000 species, aggregating over 20,000 specimens. About 500 specimens of mounted birds in large cases stand on gallery platforms on either side of the main biological laboratory together with about fifty mounts of fur-bearing forms. Cases of representative forms of all the classes of animal life are in place in the biological laboratories for immediate use. Some very valuable series of wax models show the embryonic development of the chick, frog and the amphioxus, and in aquaria in the main laboratory are growing forms of life so arranged that students may become familiar with the activities of living forms and their relations to their surroundings. This material is designed and arranged primarily for class use, but the College aims to serve the public by making it available for general education. To further this end the Natural History museums are open every day, those in Science Hall in the morning and those in Memorial Hall in the afternoon.

THE PRESIDENT'S HOUSE

The President's House was built by the Trustees in 1910. It is a handsome building of the Colonial style of architecture and is located on college grounds within a block from the campus.

HALLS OF RESIDENCE

MEN

CHAPIN HALL

Chapin Hall, the residence hall for men, is the gift of Dr. D. K. Pearsons and was named by him in honor of Aaron L. Chapin, the first President of Beloit College. This building, located on the north end of the College Campus, provides comfortable accommodations for fifty-seven young men. It is heated by steam and lighted by electricity.

The Hall is under the charge of a faculty committee consisting of the General Secretary of the College and a resident instructor. An association of the men of the Hall provides house rules of conduct and promotes the social life of its members. The management of the table and the care of the building are under the charge of the Matron.

WOMEN

One large hall and two large cottages, located one block north of the campus, provide accommodations for eighty-five young women. The young women in college halls of residence are under the immediate supervision of the Dean of Women, who resides in Emerson Hall. Each residence hall is under the charge of a resident chaperone. The management of the table and the care of the halls of residence are under the charge of the Matron.

EMERSON HALL

Emerson Hall, also the gift of Dr. Pearsons, is a beautiful home for the young women of the college and was named by Dr. Pearsons in honor of Prof. Joseph Emerson, one of the first professors of Beloit College. It accommodates about forty-five young women of the Freshman and Senior classes. On the first floor is located the dining hall for all young women residing in the halls. On the third floor are the large, well-equipped, women's gymnasium, baths, and dressing rooms. The building is lighted by electricity and heated with hot water.

JUNIOR HOUSE AND STOWELL COTTAGE

Junior House and Stowell Cottage accommodate each about twenty young women of the Junior and Sophomore classes respectively. The opportunity for an independent class life in these cottages is greatly valued by the young women. These buildings are heated with hot water and lighted by electricity. Information concerning the equipment of these buildings is furnished in special bulletins.

THE HEATING PLANT

The heating plant is a brick building located west of the Gymnasium. It contains three large return water tube boilers with down-draft grates, which furnish steam for heating all of the buildings on the campus. The system used is the Paul vacuum system. At present plans are being prepared to enlarge the plant by the installation of electrical apparatus for lighting and power purposes.

COLLEGE FIELD

During the summer of 1911, the athletic field was enlarged by the addition of a tract of land adjoining it on the east. College Field, a large level piece of ground with fine turf surface, contains a football gridiron and new baseball diamond. It is provided with a well-laid quarter-mile running track, a gift from the class of 1911 and the Trustees. The grandstand and bleachers have a seating capacity of about four hundred.

Administration

REGISTRATION AND ENTRANCE

On entering college, and at the beginning of each semester, every student is required to register at the hour and place stated in the Calendar. Students not registering at the specified time are required to pay a registration fee of one dollar.

After each vacation recess, registration is counted as the first exercise. Failure to register on time is counted as five class absences.

Students applying for admission to college from any preparatory school must present before registration a certificate of admission, signed by the principal.

Advanced credit will be given by the College for work done in secondary schools only after special examination in the subject in which advance credit is desired, unless the school from which the record is presented has been inspected by the Faculty of the College, and its courses approved by them as entitled to such credit. Graduates of normal schools are admitted with advanced credit.

Students entering college from other institutions of collegiate grade must present an honorable dismissal from such college or university; if advanced standing is desired a complete certified transcript of their record in former institutions must be furnished.

For full details of requirements for entrance to College see under Admission.

ADVISERS

Every student while in College is assigned to some member of the Faculty who becomes his adviser, assisting him in selecting his studies and in a general way, aiding him in the problems of his college life and work. For the last two years the professor under whom he takes his Major acts as his adviser.

The system of advisers for the under classmen has been modified recently as follows: Beginning with September, 1915, Boards of Advisers will be appointed for the Freshmen and Sophomore Classes, four members of the Faculty serving on the Freshman Board and three on the Sophomore. Every Freshman on entering college will be assigned by the Dean to some member of the Freshman Board, who will serve as his adviser through the year. At the close of the Freshman Year the student will pass under the direction of the Sophomore Board; at the time of election of studies for the Junior Year under the direction of the head of the department in which the Major is taken.

ELECTION OF STUDIES

Students are required to take at least fifteen hours of work in each semester of the college course. A larger number of hours may be elected upon recommendation of the adviser. A student may be permitted by vote of the Faculty to elect less than fifteen hours, for specific cause; but under no circumstances will a student be allowed to take less than twelve hours of work.

The words *Year Course,* appended to the title of a course in this catalogue, indicate that election of the course must be made for the entire year. Such a course may not be dropped at the end of the First Semester except as provided for in the Administrative Rules.

The election of studies for the First Semester by Freshmen and others entering College for the first time will take place on the Tuesday preceding the opening of the College in the fall. The hours will be from 9:00 A. M. to 4:30 P. M.

Except for new students, the regular election of studies for each semester will take place at the times appointed in the College Calendar.

For every change in elections after the above dates a fee is charged; if the change is made before the recitations of the new semester have begun, the fee is fifty cents; after the beginning of recitations it is one dollar.

Before election cards are returned to the Recorder, those of Freshmen and Sophomores must have the signature of the class adviser, in approval of their elections. At the spring election in Sophomore year, for the first semester of Junior year, the student must signify his choice of a Major and thereafter all elections must be approved over the signature of such Major instructor.

No student will be admitted to classes in any course until his class card, properly signed by the Recorder, has been presented to the instructor in that course.

HOURS, GRADES AND CREDITS

The student's work at Beloit College is estimated in terms of hours and credits. An hour, in this connection, means class-work taken one hour per week for a semester. A credit is a measure of the quality of the work performed.

A certain number of semester-hours of work must be completed each year in order to secure advancement to a higher class. Students will not be classified as Sophomores until they have completed twenty-two semester hours; as Juniors until they have completed fifty-six hours; and as Seniors until they have completed eighty-six hours. One hundred and twenty-two semester hours are required for graduation. A proportionate additional number of hours and credits must have been made for advancement at any mid-year.

The quality of the work is indicated in "credits", a certain number of which must be secured before a student can pass from a lower into a higher class. Eight credits are required during Freshman year, nine credits during Sophomore year, ten credits during Junior year and ten credits during Senior year. Thirty-seven credits are required for graduation. Failure to secure three-fourths of the required number of credits during any given year of the course prevents the student from passing into the next higher class, except by faculty permission. Failure to secure the ten credits required during Senior year or thirty-seven credits during the course debars the student from graduation.

According to the system of grades now in use by the College, AA indicates work of an extraordinary quality; A excellent work; B good work; C fair work; D merely passing; F a failure with privilege of re-examination, and FF a failure without such privilege. A grade of FF received in any study during the Freshman or Sophomore year requires repetition of the course, or completion of a course from the same group, the succeeding year.

Credits are estimated as follows: a grade of AA secures one credit for each semester-hour completed; A eight-tenths of a credit; B five-tenths of a credit; C two-tenths of a credit; D merely passes the student but gives no credit. A plus or a minus accompanying a grade adds or subtracts one-tenth of a credit.

EXAMINATIONS AND REPORTS

Final examinations are given in all courses at the end of each semester. Reports on the standing of Freshmen and Sophomores are sent to their parents or guardians at the close of each semester; for the Freshmen in addition to the regular semester examinations mid-semester examinations are held, reports on which are also sent. Reports on the semester's work are issued to all students as soon as possible after the close of the semester such reports giving the courses completed and credits made.

REQUIREMENTS FOR GRADUATION

GRADUATION IN FOUR YEARS

A candidate for the degree of B. A. or B. S. must have completed 122 semester-hours of studies, including 2 hours of Biblical Literature, 4 hours of Rhetoric, 2 hours of Gymnasium, a Major of 18 to 24 hours in one department and 12 hours from a group other than that in which the Major is taken. In addition he must have made at least 37 credits and must have fully met the requirements of groups of studies as detailed under The Course of Study.

GRADUATION IN THREE AND ONE-HALF YEARS

A student may complete the college course in three and one-half years by taking eighteen hours of work in each of five semesters. Permission to do this will be conditioned on his maintaining an average grade of B. Written notice of intention to complete the course in three and one-half years must be given at the beginning of the third year. On completion of all requirements for graduation as stated in the preceding paragraph the student may, on petition, obtain leave of absence until Commencement, at which time the degree will be conferred.

GRADUATION IN THREE YEARS

A student who presents on entrance to college advanced credits equivalent to twelve semester-hours, may be allowed to take additional hours under the College Regulations each semester, and, after meeting all requirements for graduation, obtain a degree in three years. Written notice of intention to complete the college course in three years must be given at the beginning of the second year. Permission to take the extra hours, and to graduate in three years, may be withdrawn at any time, if the student's work is not satisfactory.

DEGREES AND HONORS

The degree of Bachelor of Arts is conferred at graduation upon students whose Major is in Group I or Group II (See Course of Study); the degree of Bachelor of Science upon those whose Major is in Group III.

The degree is conferred *cum laude* upon students who have maintained an average of B+; *magna cum laude* upon those who have maintained an average of A; *summa cum laude* upon those who have maintained an average of A+.

Departmental honors are awarded at graduation to students who have maintained a uniformly high rank throughout their college course and who have, during their Junior and Senior years, attained an A grade in twelve hours of work in one department, and presented a satisfactory thesis.

STUDENT CO-OPERATIVE BOARDS

There are three student co-operative boards acting in an advisory capacity with the administration of the College.

THE STUDENT COUNCIL

The Student Council is composed of nineteen students meeting with the President and the two Deans of the College. The President of the Senior class and the editor-in-chief of the College paper, The Round Table, hold membership in the Council *ex-officio,* the latter without power to vote. Besides the Senior president, three men and three women are elected from the Senior class; three men and two women from the Junior class, and two men and two women from both the Sophomore and Freshman classes. The Council meets on call of the President, who acts as the presiding officer, or of student members of the Council. Questions relating to student welfare are frequently referred to it and recommendations are made to the student body and to the Faculty of the College for action.

THE WOMEN'S STUDENT GOVERNMENT ASSOCIATION

The Women's Student Government Association is made up of the young women of the College. The association is managed by a board of officers elected by the young women, which, under the supervision of the Dean of Women, controls the life of the students in the women's dormitories with all details of its discipline. It may through the Dean of Women refer to the Faculty of the College matters requiring Faculty action.

THE HONOR COMMITTEE

All written examinations and tests are conducted under the Honor System. No officer of the College is present during an examination, but each student is required to write on his paper a pledge that he has neither given nor received any aid during the examination. The administration of the Honor System is in the hands of a student committee. By the constitution of the system it is the duty of every student to report to the committee all evidence of dishonesty in examinations and other written work, or mis-use of the Library equipment that he knows of by observation. If after investigating such evidence the committee finds a student guilty of dishonesty, it reports the case to the Faculty through the Dean, with a recommendation for discipline.

STUDENT ACTIVITIES

Participation in student activities is regulated in accordance with a body of Administrative Rules and a Schedule of Points, each originally instituted by co-operative action of the Student Council and of the Faculty. The College aims in this manner to give a share in student activities to more students, to improve the quality of the work done in these activities, and to make it plainly the student's fault if he does not find time to study.

ADMISSION OF WOMEN TO BELOIT COLLEGE

By action of the Board of Trustees, the number of young women who will be admitted to the College each year is limited to the number which can be accommodated in the women's dormitories. The Trustees and the Faculty believe that the interests of the College and of the young women in attendance are best conserved when the young women are in College dormitories under the immediate supervision of a competent Dean of Women. It is impossible to maintain this supervision when women students are allowed to room in private homes. This limitation, however, does not apply to those who reside with parents or relatives in the city of Beloit.

The regulation will be strictly adhered to, and no deviation from it will be allowed unless exceptional circumstances seem to warrant the Faculty in suspending the rule in individual cases.

The women's dormitories accommodate about eighty-five students. This enables the College under the new regulation to admit about thirty young women each year into the Freshman class. A deposit of $10.00 must be made for reserving a room. This should be made payable to "Beloit College" and sent to the General Secretary when the application is made. This Registration Fee will be refunded if notice is given *before August first* that accommodations applied for are not desired. A special circular giving details as to rooms and board in the dormitories may be had upon application to the General Secretary of the College.

General Information

WORSHIP

There is a united religious service at 8:40 A. M. each week-day, except Saturday, in the College Chapel.

On Sunday afternoon the students are required to attend worship at the College Vesper service in the Chapel. Weekly Y. M. C. A. and Y. W. C. A. meetings and a mid-week College Conference are held; also classes for the study of missions. The attendance of the students is welcomed and their assistance is valued by the churches and Sunday Schools of the city; many have been useful workers in outlying Sunday Schools.

EXTENSION LECTURES

A majority of the members of the Faculty offer extension lectures upon subjects connected with their departmental work. The subjects selected are not of a technical character, but are of common interest, and have been prepared for high schools and general audiences. Principals of high schools or others who wish lectures are invited to make applications to the General Secretary of the College, who will send the list of subjects and lectures, and will furnish any other information desired.

A small fee is charged for the lectures, in addition to the expenses of the lecturer.

EXCHANGE PROFESSORSHIPS

By an arrangement with Harvard University an exchange professor who will offer special courses of lectures, is assigned to Beloit College from year to year. These lectures are given in connection with the College work and will form an integral part of the regular curriculum for the department concerned. In addition the lecturer will offer a course of lectures of a more general character open to all students and friends of the College.

THE PORTER MISSIONARY LECTURES

A fund has been established in the College, providing for the delivery and publication of lectures upon missions. According to the terms of endowment, "it is desired that these lectures be delivered biennially, upon themes covering the wide range of missionary history or biography, or of the conquests to our larger knowledge of mankind by missionary travel or research, or by the moral triumphs of the Gospel in its appeals to men."

Courses of lectures under the endowment have been given by the following:

1892, April—Rev. Edward A. Lawrence, D. D., Baltimore, Md.

1894, March—Rev. Arthur H. Smith, D. D., '67, Pang Chuang, China.

1897, May—William Douglas MacKenzie, President Hartford Theological Seminary.

1900, May—Rev. James D. Eaton, D. D., '69, Chihuahua, Mexico.

1901, October—Robert E. Speer, M .A., New York, N. Y.

1904, May—Rev. Charles Cuthbert Hall, D. D., LL. D., Late President Union Theological Seminary.

1907, April—Rev. Lyman Abbott, D. D., LL. D., New York, N. Y.

1907, April—Robert E. Speer, M. A., New York, N. Y.

1909, May—Rev. Arthur Judson Brown, New York, N. Y.

1911, January—Rev. Robert A. Hume, D. D., Ahmednagar, India.

1913, January—Rev. Harlan P. Beach, M. A., Professor of Missions, Yale University, New Haven, Conn.
1914, December—Bishop William McDowell, D. D., L.L. D., Chicago, Ill.

THE GEORGE GREINER SCHNEIDER LECTURESHIP

A fund has been provided by Mrs. Marie Greiner to found a lectureship in memory of George Greiner Schneider, a member of the Class of 1905. These courses of lectures differ from year to year and are on general subjects contributing to the best cultural life of the College. The following courses have thus far been given:

1906, March—"A Spiritual Interpretation of Life,"
Rev. David Beaton, M. A., Chicago, Ill.
1907, February—"The Scottish Spirit and its Teachings,"
Rev. David Beaton, M. A., Chicago, Ill.
1908, February—"The West and its Problems,"
Rev. David Beaton, M. A., Chicago, Ill.
1910, March—"International Peace,"
Mr. Hamilton Holt, New York City, N. Y.
1911, November—"Educational, Political and Social Conditions in Germany,"
Dr. Casper Rene Gregory, Leipsig, Germany.
1912, November—"Tolstoi" and "Goethe,"
Dr. Eugen Kuehnemann, Breslau, Germany.
1914, May—"The Panama Canal," and "The New Currency Law,"
Professor Ralph H. Hess, Madison.
1914, December—"The Office and Possibilities of the Modern Organ."
Abram Ray Tyler, A. G. O., Detroit, Michigan.

GRADUATE STUDY

Opportunity for advanced work in certain departments of the College is given to graduates of Beloit College and of other approved institutions; this work may or may not lead to the degree of Master of Arts. It is intended that this degree shall be granted only for advanced liberal study; work of a professional nature will not be accepted for the degree. At least fifteen hours must have been taken under the direction of a member of the Faculty of the College.

Courses may be arranged for by application to the Committee on Graduate Study.

MUSIC

Music is an important element in the religious, the intellectual, and the social life of the College. The music at the daily chapel service and at the Vesper service on Sunday is led by the Vesper choir, supported by a large three-manual pipe-organ, installed during the summer of 1914. The College Library contains a valuable collection of music and musical literature, to which important additions are made each year. In addition to courses described in the course of study, mention should be made of facilities afforded students for the study of music through the Vesper choir, glee clubs, mandolin club, band, etc.

Many of the students are given the opportunity of membership in the church choirs of the city, and in local bands and orchestras.

STUDENT EMPLOYMENT BUREAU

Beloit College maintains an Employment Bureau to aid students who desire work. The bureau is under the direct supervision of a Faculty committee and is managed by the General Secretary of the College. The management of the bureau is upon a thorough business basis, and it aims to keep in close touch with the leading manufacturing and business firms of the city which give employment to students. A careful canvass of the city for employment is made at the opening of the year, and at such intervals during the year as seem advisable. Students who desire employment may register with the secretary of the bureau, without expense; every effort is made to secure the employment which is best adapted to individual needs.

Beloit is a manufacturing city and its citizens are interested in aiding students who desire employment. For the past three years about 50 per cent of the students at Beloit have secured employment which has enabled them to pay a part or the whole of their expenses. The canvass of the city is made early in the summer, in order that information may be given to students before entering. This information, which is available after the first of July, will be gladly furnished to prospective students on application to the General Secretary.

CAMPUS BOOK STORE

The Campus book store, in charge of a competent manager, is located in the basement of North College. It furnishes books, stationery, athletic goods and other college requisites to students at reasonable prices.

PHI BETA KAPPA

In June, 1911, the "Beta of Wisconsin" Chapter of the United Chapters of the Phi Beta Kappa society was established at Beloit. The society is made up from those of the highest scholarship in each graduating class; out of the first fifteen per cent of the Senior class as shown by the Recorder's records not more than ten per cent are elected to the society. A public address is given before the society during commencement week.

LITERARY INTERESTS

The Archæan Union, an organization of which every student of the College is a member, has general supervision of certain literary interests of the College, such as debating, inter-collegiate contests in oratory and debate, the maintenance of a reading-room, and the publication of the College weekly paper.

The Union is supported by a small fee included under the regular incidental expenses of each student; its affairs are managed by the Archæan Board of Control, made up of alumni, faculty and students elected by the student body and forming a two-thirds majority on the Board.

There are in the College two voluntary literary societies, the Delian and the Cliosophic, for men, and one, the Aristonian Society, for women, which hold weekly meetings for practice in debate and other literary exercises. Rooms are set apart for their use in Middle College.

The College holds annually three intercollegiate debates: a Freshman triangular debate with Lawrence and Ripon Colleges; a Sophomore debate with Albion College; and dual debates with Knox and Cornell Colleges, open to Juniors and Seniors. In addition to these, there is an annual debate for a silver cup, known as the Archæan Cup Debate, between the two men's literary societies.

There is held each year a competitive contest in oratory, known as the Home Contest. The two successful competitors represent the College in the State Oratorical Contest. A similar contest is held for the purpose of selecting the representatives of the State Peace Oratorical Contest.

The reading room of the Archæan Union is in the College Library. It is liberally supplied with newspapers and literary periodicals of all classes.

The College weekly paper, The Round Table, is now in its sixty-first year; it offers an excellent opportunity for training in journalistic work, which is open to all students, as the editorial positions are filled by competition.

The Beloit Alumnus is under the editorial management of alumni appointed by the Alumni Council. It is a bimonthly publication containing news from the alumni and discusses questions of wide college interest.

The English Club is an organization of students for the study of topics connected with English literature. All students of the College are eligible for membership. Ten meetings are held each year. During the year 1914-15 the club is making a study of Modern Drama; at each meeting a certain act of some play significant in the development of this form of drama is presented informally

The Shakespeare Society devotes itself to the study and presentation of the plays of Shakespeare. Its membership is open, on a competitive basis, to all women students; three-fourths of the members are chosen for excellence in acting, as shown in a contest held early in the year; the other fourth are appointed for excellence in the work of the course in Shakespeare. The Society gives an out-of-door performance of one of Shakespeare's plays in the spring of each year; the play presented in 1914 was "Twelfth Night".

COLLEGE PHYSICIAN

Appointment is made by the College of a physician, who shall aid the Physical Directors in conserving the health of the students, and from whom all excuses from College exercises or gymnasium work on account of illness must be procured. Every student of the College is entitled to consult the physician once in each case of illness and receive advice or a prescription without charge beyond a small fee included in the incidental expenses. Should further medical attendance be desired, it is at the option of the student either to employ another physician or the College physician and be subject to physician's customary charges.

PHYSICAL EDUCATION

A physical examination is given all students upon entering college. All students in the Freshman and Sophomore classes are required to take physical training under the supervision of one of the directors.

Men's classes are held in Smith gymnasium in different sections scheduled from 3:30 to 4:30 daily, except Saturday. Special classes in wrestling are held on Mondays, Wednesdays, and Fridays, from 5:30 to 6:00 P. M.

The regular classes for women students are held in the gymnasium of Emerson Hall. There are also classes in æsthetic and folk-dancing, open especially to Juniors and Seniors. Each student, at the beginning of her Freshman and Sophomore year, is given a physical examination. The aim of the department is to raise the standard of health by toning up all the bodily functions, and developing and strengthening the muscles. The gymnastic curriculum includes free exercises, light and heavy apparatus work, drills of various kinds and games.

A course in elementary physiology and hygiene, in connection with the gymnasium work, is required of all Freshmen.

ATHLETICS

An athletic fee of seven dollars is included among the incidental expenses collected from each student. In consideration of this, there is issued to each student a season ticket, admitting him free of charge to all home athletic contests held by the College.

All field and track athletics are under the immediate personal charge of the Director of the Gymnasium and Athletics.

The athletic organizations of the College are managed by the Athletic Board of Control, a board made up from the alumni, faculty, and students, securing to all athletic matters the highest efficiency combined with the greatest economy.

EXPENSES

REGULAR COLLEGE DUES

Uniform for all students except those occupying the Women's Dormitories. (Which see below.)

Tuition, per semester	$25.00
Incidental Fee, per semester	13.00
Including incidental fees except the laboratory fees and graduation fee as noted below.	
Athletic Fee, per semester	3.50
This fee paid by all students gives admission to all home athletic events held under the management of the Beloit College Athletic Association.	
Total per semester	$41.50

SCIENCE LABORATORY FEES

Charged to cover the cost of materials used, are in addition to above regular dues, and vary according to the courses elected, as follows:

Astronomy, per semester	$1.50
Biology, per semester	4.00

Botany, per semester	4.00
Chemistry, per semester	5.00
Experimental Psychology, per semester	2.00
Geology, per semester	1.50
Mechanical Drawing, per semester	1.50
Physics, per semester	4.00
Surveying, per semester	1.50
Zoology, per semester	4.00

GRADUATION FEE

A fee of $9.00, payable by all Seniors, is charged in the second semester bill. This includes the cost of the diploma for the bachelor's degree.

CHARGES FOR WOMEN OCCUPYING DORMITORIES

The regular fixed charge uniform for all women in dormitories is $328.00 for the college year; one-half ($164.00) being payable in advance at the beginning of each semester. This charge covers tuition, board, and room rent, including light and heat; also the incidental and athletic fees. The science laboratory fees and the graduation fee are extra.

Rooms in the women's dormitories are assigned early in June, students already in attendance having preference. After that time rooms will be assigned, in order of application, by the General Secretary to whom all correspondence in regard to rooms should be addressed. A deposit of $10.00 must be made when rooms are reserved This amount will apply toward payment of bills in the fall, or will be returned if the General Secretary is notified *before August first* that the applicant desires to cancel her reservation.

CHAPIN HALL RENTALS

Rent for rooms in the men's dormitory, Chapin Hall, is $54.00 per occupant for the year; one-half ($27.00) is payable in advance at the beginning of each semester. This rental includes both heat and light.

In choice of rooms preference is given to previous occupants of the building in order of application, except that an occupant of any room may retain the room if he so desires, unless he is excluded for cause. After the close of the college year all applications, whether from previous occupants or others, will take their turn as received. All reservations, to be valid, must be accompanied by a payment of $5.00. Notice of withdrawal of reservation must be given to the General Secretary before September 1st; otherwise, if the room is not taken by the person making the reservation, the fee is forfeited.

A deposit of $5.00 is required from each occupant to cover damage to rooms, loss of keys, etc. The reservation fee paid as above will be considered such deposit and will be returned when the occupant leaves the Hall less whatever damages or loss, if any, may have been incurred.

Correspondence as to accommodations should be addressed as early as possible to the General Secretary, Beloit College, Wisconsin.

PAYMENT OF COLLEGE BILLS

All of the above dues are to be paid at the Treasurer's office in Middle College. In order to avoid confusion, and for the convenience of all concerned, *first* semester payments are to be made by *Freshmen* on *Tuesday,* the*Registration Day for Freshmen.* Members of the other classes must see that their bills are paid or provided for within one week from the opening day of each semester. *Additional charges* will accrue if bills are allowed to run unprovided for beyond that time.

REFUNDING OF BILLS PAID

Absence for imperative reasons and for a period of more than *one-third of a semester* will be considered the only sufficient ground for refunding a portion of bills already paid; this rebate will be made according to certain rules made by the Board of Trustees, upon an order signed by the Dean.

SCHOLARSHIPS AND BENEFICIARY FUNDS

The College has at its disposal funds aggregating more than one hundred thousand dollars, the income from which is for the aid of those who are unable to pursue a college course without assistance. Some of these funds have been donated under particular conditions; others are not so restricted. A limited number of students who are needy receive aid from the College in amounts varying from $10 to $25 per semester. In awarding the income from these funds preference is given to students of high character and good scholarship, who are earning at least a portion of their own support, whose habits are economical and who have no delinquency in any subject. The aid is promised for only one semester, but usually continued for the year provided the required conditions as to scholarship and conduct are maintained.

Applications for scholarships must be made *in advance for each semester.* Students who become members of college fraternities are not usually granted scholarships since it is felt that those who can afford the luxury of fraternity life do not need college aid.

Application blanks for scholarship aid can be obtained from the Registrar and students desirous of this help should apply for them as early as possible, and after filling them out in detail, should return them promptly to the Registrar.

The following are the funds from which awards are made:

The Bacon Fund, $35,000, established by Edward P. Bacon, Esq., of Milwaukee, the income of which is divided into seven fellowships; four in the College, and three for graduates pursuing a course of theological study. One young man from each Freshman class is appointed to receive the benefit of a Bacon Fellowship, the selection being from among those who are especially dependent on their own exertions in securing an education. Appointments are made from among those who are maintaining a high grade of scholarship. At the close of the Senior year one is similarly chosen to receive a fellowship for a theological course.

The Emerson Fund, $24,832.63, bequeathed by Rev. Joseph Emerson of Andover, Massachusetts, for the assistance of students preparing for the ministry.

The McConnell Fund, $20,844.92, bequeathed by Mr. Charles D. McConnell, '98, of Richmond, Illinois.

The Dodge Fund, $9,000, bequeathed by Mr. Rufus Dodge of Beaver Dam, for aiding young women in their higher education.

The Elisha D. Smith Fund, $7,000, founded by Mr. Elisha D. Smith of Menasha.

The Education Fund, $4,000, for the assistance of students preparing for the ministry.

The Burr Fund, $3,500, originally the Academy Endowment Fund, but transferred to the College and named in honor of A. W. Burr, for twenty-three years Principal of the Academy.

The Robert Coit Chapin Scholarship, $2,500, in memory of Professor Chapin, is especially for students of promise in the departments of Economics and Sociology.

The Chandler Fund, $1,000, bequeathed by the Honorable W. H. Chandler of Sun Prairie.

The Bullock Memorial Fund, $1,000, given by Mrs. Bullock to found the M. G. Bullock Memorial Scholarship; the income from the above sum to be given annually to a student interested in applied science.

The University of Wisconsin offers annually a scholarship of $225 to one of the graduates of Beloit for graduate study at the University of Wisconsin; the incumbent is required to devote a portion of his time to assistance in the work of some department with which he is familiar.

PRIZES

THE LEWIS PRIZE

The Lewis Prize was founded by Governor James T. Lewis, and is offered for excellence in special work in German.

THE ORVIS AND ROWNTREE PRIZES

The class of 1901 has given the sum of $1,000, the income from which is used annually for three prizes offered to the Freshman Class for excellence in Public Speaking. The prizes are in memory of two members of the class of 1901, Roger D. Orvis and Mabel Rowntree. Not more than six young men selected from the Freshman Class compete for these prizes at an exercise held during Commencement week.

THE RICE PRIZE

The Rice Prize of $30.00 is offered to the Junior class for excellence and improvement in extemporaneous speaking. An elective course (Public Speaking 7-8) is offered in this subject, and the prize is awarded at a contest during Commencement week among six speakers chosen for the excellence of their record during the year.

THE MISSIONARY PRIZE

A prize of $20.00 has been established by a graduate of the College, a foreign missionary; it is offered in alternate years for the best essay on some subject connected with missions, and for the highest excellence in an examination upon Greek or Latin not read in the regular college course.

For 1914-1915 the prize will be awarded for the highest excellence in an examination upon Plato's *Euthyphro.*

THE LOGAN PRIZE

The F. G. Logan & Co. Prize, for the year 1914-15, will be divided into two parts. $25.00 is offered for the best archæological collection presented to the Logan Museum. The collection must be delivered to the Curator of the Museum on or before June 1st. $25.00 will be given for the best essay on Mound Groups about Beloit, to be accompanied by a map of the groups described. This essay must be handed in on June 1st.

THE HAY PRIZE

The Hay Prize in American Citizenship was founded in memory of Henry Hay of the class of 1894. This prize of $40.00 is offered to any member of the Senior class for the best essay on a subject pertaining to American Citizenship. The essays are to be from 3,000 to 5,000 words in length, to be accompanied by lists of books and articles consulted, and all citations to be referred to their proper source. Three type-written copies must be submitted for transmission to the judges by June 1st. The award will be made on the basis of both form and substance. The subjects for the present year are:

1 The Minimum Wage as a Method of Raising the Standard of Living.
2. The City Manager Plan.
3. A National Policy for the Control of Trusts and Corporations.
4. Development of Corporation and Anti-Trust Laws in the United States.

THE FINE ARTS PRIZE

A prize of $25.00, the income from a fund of $500.00, given by a lady who witholds her name, is offered annually for the best essay on a subject connected with the Fine Arts. The essays are to be from 3,000 to 5,000 words in length, and are to be handed in on June 1st.

The subjects for The Fine Arts Prize Essays for 1914-1915 are:

1. The Place of the Fine Arts in Commercial Advertising.
2. Etching: Its Processes, and the Work in, of Rembrandt and Anders Zorn.
3. The Influence of Greek Art upon the Sculpture of Michael Angelo.
4. The Work in Painting and Mural Decoration, of John S. Sargent.

THE HORACE WHITE PRIZE

A prize of $50.00 is offered by Horace White, LL.D., '53, for special excellence in Latin during the Sophomore year.

THE JACKSON J. BUSHNELL PRIZE

A prize of $50.00 has been founded by S. Morgan Bushnell, '98, in memory of his father, Professor Jackson J.

Bushnell. It is awarded annually for excellence in the mathematical work of the Freshman and Sophomore years.

THE ELIZABETH MCMOLLEN PRIZE

By the will of Miss Agnes J. McMollen, of Oregon, Ill., a sum of money has been bequeathed to the College to be known as the "Elizabeth McMollen Memorial Fund", in memory of the sister of the testatrix. The income amounting to $40.00 will be awarded annually as a prize to the student presenting the best thesis on some phase of Christian Citizenship.

The subjects for the McMollen Prize for 1914-15 are:

1. Child Welfare as a Christian Obligation.
2. The Obligations of the United States as the Promulgator of the Doctrine of Righteousness. (e. g. Roosevelt's Doctrine).
3. Christian Obligations of Stockholders and Directors to their Employees.
4. The Monroe Doctrine; Should it be upheld Unchanged, Modified or Abandoned.
5. Working Men's Compensation as a Method of Relieving the Burdens of Industrial Accidents.

Admission

Graduates from a high school or academy course (see page 73, Accredited Schools) covering a period of four years are admitted to the Freshman class of the College on presentation of fifteen units of preparatory work, as indicated below. A unit is the equivalent of five recitations per week in a study for one school year. Half-units will be accepted only when presented in addition to whole units in the same subject, or when presented in subjects as closely allied as Botany and Zoology, or as Civics and Economics. The two units of Foreign Language required in group A below must be offered in a single language.

All applicants for admission are required to present fifteen units distributed as follows:

A. With Foreign Language.

I. *Required* of all students, nine units as follows:

Rhetoric	1
English Literature	2
History	1
Mathematics	2
Science (Laboratory Science)	1
Foreign Language	2
Total	**9**

II. Four units are *required*, six are *allowed*, from the following:

English Literature	½—1
Foreign Language	1—4
History	1—2
Economics, Civics	½—1
Mathematics	½—1
Science	1—3

III. Two units are *allowed* from the following:

Manual Training	1—2
Domestic Science	1—2
Book-keeping	1
Stenography and Typewriting	1
Commercial Law	½

Requirements for graduation for students entering under A:

1. 120 Semester-hours including 18 hours of foreign language for students presenting 2 units of foreign language.
2. 120 Semester-hours and 12 hours of foreign language for students presenting 4 units of foreign language.

B. Without Foreign Language.

A student who does not present foreign language for entrance, is admitted on presentation of the following:

1. 15 units, including 7 units from A I and 5 units from A II above.
2. A statement from a principal or superintendent that the applicant ranked in the upper half of the class in which he or she prepared for college.

Requirements for graduation for students entering under B:

1. 128 Semester-hours including 20 hours of foreign language.

While applicants for admission must present the requisite number of units taken from those stated above, the College would prefer the following elections therefrom as on the whole best preparing the student to carry on its work:

Foreign Language 4 units, English Literature 2 units.
Rhetoric 1 unit, History 2 units, Mathematics 2 units,
Science 2 units, optional 2 units.

REQUIREMENTS BY DEPARTMENTS

Botany. The course presented for entrance in Botany should include the elements of plant structure and physiology, and the life history of types of plants representative of the great plant groups. The work on plant structure and physiology should comprise studies of the root, stem and leaves of the higher plants. The laboratory and field work should occupy about two-thirds of the time given to the course.

Chemistry. Students offering Chemistry as an entrance-unit in Science should have had a thorough course in General Chemistry, with laboratory work. The course should include both the non-metals and the metals. It is not expected that qualitative analysis will have been taken up.

Civics. A unit in Civics may be made up of a year's course in Civics, in Civics and Economics, or in Civics and the History of the United States.

English. The requirement in English has two branches, Rhetoric and English Literature. The study of English should be continuous throughout the four years of the high school course. The importance of the study is fundamental; but it should not be made a substitute for other subjects requisite for breadth of training.

> **A. Rhetoric.** One unit of Rhetoric is required of all candidates for admission to College; but it is hoped that much more than one-fourth of the high-school course in English will be devoted to work in composition, either as a separate study or in connection with the work in literature. A student whose first month's work in Rhetoric 1 shows serious deficiency in spelling, punctuation, grammar or sentence-structure will be required to take additional work to make up the deficiency, and will be excluded from matriculation until such work is satisfactorily completed.
>
> **B. English Literature.** One unit of English Literature is required of all candidates for admission to College; candidates for entrance to the Freshman course (English Literature 1), must present two units. A third will be accepted in some cases, from schools of exceptional strength.
>
> The course in High School preparation should include work of two kinds, **a** and **b.**
>
> **a.** The student should be caused to study carefully the works assigned by the Conference on Uniform Entrance.

Requirements in English for 1914-1915. These works are Shakespeare's *Macbeth*; Milton's *Comus, L'Allegro,* and *Il Penseroso.* Either Burke's *Speech on Conciliation with America* or both Washington's *Farewell Address* and Webster's *First Bunker Hill Oration*; and either Macaulay's *Life of Johnson* or Carlyle's *Essay on Burns.* Proper study of works of equivalent merit and fitness will be accepted. **b.** The student should also read more rapidly a considerable selection of other pieces of English literature. These should be chosen from the list and should accord in number and kind with the grouping, suggested for such work by the Conference on Uniform Entrance Requirements in English.

It is desirable that the student who presents three units for entrance to College have some knowledge of the history of English literature; this will best be taught in connection with the work of the third and fourth years. It should not prejudice unduly the careful completion of the other work. A text-book may be used for this work, but a simple outline, given as a background and accompaniment to chronological readings from the literature, is preferable. In all of the preparation, study of works themselves, rather than study about the works, should be the chief object.

German. Two units of German are required for entrance, including preparation in Punctuation, Grammar (Joynes-Meissner or Thomas) and the following Readings. *Glueck Auf* (Mueller and Wenckebach), Storm's *Immensee,* Gerstaecker's *Germelshausen, Novelletten-Bibliothek, Vol. 1* (Bernhardt), Schiller's *Wilhelm Tell,* or equivalents.

Applicants should be able to take part with reasonable correctness in a simple German conversation, and to put simple English sentences into German.

Greek. Two units are required of all students who expect to enter the regular Freshman course (3) in Homer.

The two required units include: Elementary Greek, in some Beginner's Book, Goodwin's or Hadley-Allen's *Greek Grammar,* four books of Xenophon's *Anabasis*, two books of Homer's *Iliad* or *Odyssey*, and forty lessons in Prose Composition.

History. Any three of the following units will be accepted in history. Texts are mentioned simply to indicate the general scope of the work, and with the understanding that the courses include collateral reading and careful attention to geography:

a. Ancient History. Texts: West's *Ancient History*, Wolfson's *Essentials in Ancient History*,, Morey's Histories of *Rome* and *Greece*, Meyers *Ancient History*, revised edition, Shepherd's Atlas, Classical Atlases.

b. Mediæval and Modern, or Mediæval and English History. Texts: Bourne's *Mediaeval and Modern History*, Robinson and Beard's *Outlines of European History*, Munro's *Mediaeval History*, Coman and Kendall's *History of England for Schools*, Shepherd's Atlas.

c. American History. Texts: Channing, McLaughlin, James & Sanford, Muzzy and Hart's *Essentials*. A year's course of high school work must be offered.

Latin. Four units are required of all students who expect to pursue work in Freshman Latin; but any student presenting three units,—two of which must represent the work of courses **a** and **b**, and the third, the work of either course **c** or course **d**, as indicated below,—may with the consent of the instructor be admitted on trial to the Freshman work.

The four units cover the following:

a. Elementary Latin book, with Grammar and easy readings.

b. Four books of Cæsar, or two books of Cæsar and the equivalent of two additional books.

c. Six orations of Cicero, including the *Manilian Law*.

d. Six books of Virgil's *Aeneid*.

Practice in Latin Composition is required in connection with works of Cæsar and Cicero.

Mathematics. Two units are required of all candidates for admission to College, as follows:

a. Algebra, a year's work, including mastery of the subjects treated in such a book as Wells *Essentials of Algebra,* through the theory of Quadratic Equations.

b. Plane Geometry, year's work, Wentworth's *New Plane Geometry* with the exercises, or an equivalent; or Plane and Solid Geometry, a year's work.

A student may present for entrance, as a third unit of Mathematics, a half-year of Algebra beyond Quadratics, together with a half-year of Solid and Spherical Geometry. Either of these studies will be a half-unit.

Physics. Students presenting Physics as an entrance-unit should include in their preparation both text-book and laboratory work. The text-books of Millikan and Gale, Carhart and Chute, or Hoadley are recommended.

Physical Geography. Students who present Physical Geography as one of the entrance-units should have completed a course in a standard text-book in Physical Geography, preference being given to Davis, Tarr, Gilbert and Brigham, or Salisbury. Work in Meteorology is not required, but a knowledge of the chief topographic forms and ability to enterpret topographic maps are necessary, and an elementary knowledge of field methods is desirable.

Physiology. The work in Physiology presented as an entrance-unit should include the study of a standard modern text-book equivalent to Martin's *The Human Body,* preceded by general work in Botany and Zoology.

Zoology. The course presented in Zoology should consist mainly of laboratory and field work on the common animals found in the vicinity of the student's home, with careful records and drawings well arranged. A good text-book, such as Linvelle and Kelley's *Zoology,* should be used as a basis for the work.

ACCREDITED SCHOOLS

Students are admitted upon certificates from the following classes of preparatory schools:

1.Schools accredited by the North Central Association of Colleges and Secondary Schools, of which Beloit College is a charter-member.

2. Schools accredited as a result of personal inspection and approved by the Faculty of Beloit College.

3. Schools in Wisconsin and neighboring states which have been accredited by Universities and Colleges of recognized standing. Students from such accredited schools are accepted upon certificate, provided that their preparatory course meets with the conditions of entrance detailed above.

CERTIFICATES OF ADMISSION

Blank certificates for the recommendation of pupils will be furnished upon application to the Registrar of the College. Applicants for admission are expected to forward to the Registrar such certificates, properly filled out and signed by the principal or superintendent of schools, before the opening of the First Semester.

ENROLLMENT

Applicants for admission must present satisfactory testimonials of good moral character.

All candidates for admission to the College, whether by examination or certificate, must present themselves for enrollment at 9:00 A. M. on Tuesday, Sept. 22nd, 1915. Entrance examinations will be held at 2:00 P. M. on that day in Pearsons Hall.

All students enter the College provisionally for one semester. At the close of this period those approved by the Faculty are formally matriculated by the President and come into full standing as members of the institution.

Each student must be a member of one of the four regular College classes, and must carry at least twelve hours of class-work. Students in special studies are not received.

ADVANCED STANDING

If the student applying for entrance to College can present more than the fifteen units required, he may be granted advanced standing in the extra studies presented, either by examination or on recommendation of the head of the department in which advanced credits are sought, or as the result of inspection and acceptance by the College of the work in the secondary school in which the courses were taken; but not more than one unit, in addition to the fifteen required, will be accepted for work done in a regular four-year course of study in a secondary school. For advanced credit in science, laboratory notebooks must be presented.

Students who have taken part of the college course in other institutions of approved rank are admitted to advanced standing on the basis of satisfactory credentials of character and scholarship.

ADVANCED STANDING FROM NORMAL SCHOOLS

Graduates of Normal Schools in Wisconsin, who apply for advanced standing at Beloit College, will be granted advanced credit as follows:

1. Two Year College Course in Normal Schools.

   Graduates from the college courses of the Normal Schools can secure full Junior rank at Beloit College, provided that such students when they entered the Normal School were fully prepared to enter the Freshman class at Beloit College.

2. Two year Professional Courses in Normal Schools for High School Teachers and Superintendents.

   Graduates from the two-year professional courses in the Normal Schools, which are designed for High School teachers, superintendents and principals, can secure Junior rank and a maximum of fifty-six hours of advanced credit at Beloit College under the following conditions:

   a. The Professional Normal course must have been preceded by a preparatory course which included the full requirements for entrance to Beloit College.

   b. Two years of foreign language must have been completed in the preparatory school and two additional years in the professional course of the Normal School. Students entering without the above amount of foreign language will receive a proportionately less amount of advanced credit.

   c. The *Electives* of the professional courses of the Normal Schools should be taken from studies similar to those offered in the first two years of the college course at Beloit.

   d. The requirements for the degree of B. A. or B. S. must be met before graduation in accordance with the provisions of the Beloit College catalogue.

3. Two Year Professional Courses for Primary and Grade Teachers.

   Graduates from professional courses for Primary and Grade teachers, who have conformed to the requirements, a, and b, under 2 above, may receive a maximum of 36 hours of advanced credit at Beloit College.

4. Three Year Professional and College Courses of Normal Schools.

   Graduates from the three year professional courses of the normal schools in Wisconsin will receive additional advanced credit at Beloit College under conditions similar to those outlined above for two year courses.

   Graduates of Normal Schools outside of Wisconsin, who have met the above requirements for Normal Schools in Wisconsin, will receive a similar amount of advanced credit.

   Students who apply for advanced credit should submit recommendations from the proper authorities of the Normal School, together with a full record of their work in both normal and preparatory schools.

The Course of Study

The departments of instruction are arranged in three groups, viz:—

I. Language, Literature and Art.

II. Philosophy, the Social Sciences and History.

III. Mathematics and the Sciences.

The Bachelor's degree is conferred upon those students who have satisfactorily completed 122 semester-hours of study with the required number of credits (see Hours, Grades and Credits, page 44, Requirements for Graduation, page 46, and Admission, page 68.) These 122 semester-hours must include: (1) a Major; and (2) 12 semester-hours of courses that are not open to Freshmen, that are in one group other than that in which the Major occurs, and that are taken after the Sophomore year; and (3) the Freshman and Sophomore courses in Physical Training, each course counting one semester-hour. Students whose Major is in Group I or Group II receive on completing the course the degree of Bachelor of Arts; those whose Major is in Group III, the degree of Bachelor of Science.

A Major consists of not less than 18 or more than 24 semester-hours made up of courses offered in one department or in allied departments as specified under the detailed statements of the several departments; at least six hours of the Major must have been completed during the Freshman or the Sophomore year and twelve hours must be taken in consecutive courses designated as Major Courses during the Junior and Senior years. For further details regarding Major requirements see statements under the several departments on pages 83ff.

By a semester-hour is meant one recitation, lecture, or laboratory-period per week for one semester of eighteen weeks. Not more than six semester-hours may be taken in any one semester in any one department, and not more than 36 hours in any one department will count toward graduation. Elections for Freshmen, Sophomore, and Junior and Senior years must conform to the regulations given on pages 79-82.

For the Bachelor's degree a thesis may be required in the Major subject to count as 2 or 3 semester-hours.

For the degree of Bachelor of Science at least six hours of College German beyond course 1-2, and six hours of College French must be taken.

Where four units of foreign language have been presented for entrance the student must complete 12 hours of foreign language work of College grade; where 2 units have been presented he must complete 18 hours; where no foreign language has been presented he must complete 20 hours.

Each student, at least two weeks before the election of studies at the end of his Sophomore year, shall select his Major and notify the head of the department concerned. The head of the department in which the Major is chosen becomes the student's adviser for the Junior and Senior years, and all of the student's elections for those years are subject to his approval.

FRESHMAN YEAR

In the Freshman year the student shall satisfactorily complete in each semester Rhetoric, 2 hours; Biblical Literature, 1 hour, and 12 or 13 hours from the elective groups given below. In the selection of these 12 or 13 hours he must take at least 3 hours from each of the groups, and he may not take more than 7 hours from any one group. He may elect either Chemistry or Biology from Group III, but not both studies during Freshman year. He may elect an additional hour in Public Speaking or Music. He is required to take three hours of a laboratory science* for each of two semesters in either the Freshman or the Sophomore year.

GROUP I.

French 1-2	3 hours
German 1-2, 3-4	3 or 4 hours
Greek 1-2, 3-4	3 or 4 hours
Latin 1-2, 3-4	3 or 4 hours

GROUP II.

English Literature 1-2	3 hours
Classic Art and Literature 3-4	3 hours
History 1-2, 16	3 hours

GROUP III.

Biology 1-2	3 hours
Chemistry 1-2	3 hours
Mathematics 1-2, 1a-2a, 1b-2b	3 or 4 hours

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* The following are accounted laboratory courses for the Freshman and Sophomore years: Botany 1-2, Biology 1-2, Chemistry 1-2, 3-4, 7-8 (if three hours be taken), Physics 1-2, Zoology 9.

SOPHOMORE YEAR

In the Sophomore year the student shall satisfactorily complete 15 hours each semester from the studies given in the groups below. Of these 15 hours he must elect at least 3 hours per semester from each of the groups; he may elect not more than 7 hours per semester from any one group—with the following exceptions: (1) in Group III he may elect 8 hours consisting of Physics 1-2 and Mathematics 3-4; and (2) in Group II he may elect 9 hours per semester, provided that at least 6 hours are elected from the following courses: Biblical Literature 11-12, Economics 21-22, English Literature 3-4, History 47, 48, Political Science, 1-2, Philosophy 1, Psychology, 2, Rhetoric 3, 4, 5. He may elect not more than four hours each semester in any one subject. Freshman studies may be elected in the Sophomore year but subject to the Sophomore requirements regarding group distribution.

GROUP I.

French 3-4	3 hours
German 7-8, 9-10	3 hours
Greek 5-6	3 hours
Italian 1-2	3 hours
Latin 5-6, 7, 9-10	3 hours
Spanish 1-2	3 hours

GROUP II.

Biblical Literature 11-12	3 hours
Economics 21-22	3 hours
English Literature 3-4	3 hours
History 47, 48	3 hours
Music 3-4	3 hours
Political Science 1-2	3 hours
Psychology 2	3 hours
Philosophy 1	3 hours
Public Speaking 5, 6	3 hours
Public Speaking 10, 11	2 hours
Rhetoric 3, 4, 5	3 hours

GROUP III.

Astronomy 1, 1a, 2	3 or 4 hours
Botany 1-2	3 hours
Chemistry 3-4, 7-8	3 hours
Geology 3-4	3 hours

Mathematics 3-4	4 hours
Physics 1-2	4 hours
Zoology 9, 10	3 hours

JUNIOR AND SENIOR YEARS

Every student is required to carry at least 15 hours each semester during the Junior and Senior years. Of these 15 hours, at least 3 hours, and not more than 6 hours, each semester must be taken in the student's Major subject. As a part of the work of the last two years, he must pass at least 12 semester-hours not open to Freshmen, elected from one group other than that in which the Major is taken. For definition of Major, see page 78.

The studies of the Junior and Senior years are grouped as follows:

GROUP I.	GROUP II.	GROUP III.
Classic Art and Literature	Archæology	Astronomy
English Literature	Biblical Literature	Biology
French	Economics and Sociology	Botany
German	History	Chemistry
Greek	Library Science	Geology
Italian	Music	Mathematics
Latin	Pedagogy	Physics
Public Speaking	Philosophy	Zoology
Rhetoric	Political Science	
Spanish	Psychology	
	Religious History	

Departments of Instruction

ARCHAEOLOGY

MR. BUELL

1-2. Primitive Life. *Year Course.*

Study of the conditions of life of primitive man, his utensils, ornaments and means of defense, and evidence of his progress in art and in the conquest of nature. Full use will be made of the extensive collections in the Logan Museum and through these the student will become familiar with the arrangement and care of museums.

Junior or Senior Year, two hours.

ASTRONOMY

ASSOCIATE PROFESSOR HAYNES

1-2. Descriptive Astronomy.

An elementary and non-technical account of the fundamental facts, methods, and results of astronomic science. A standard text will be used as the basis of recitations supplemented and illustrated by simple problems, by lantern-slide views, and by a limited amount of demonstration work with the instruments of the Smith Observatory. The course is intended to give a culture-view of the science of astronomy, rather than to furnish a basis for continued study of the subject.

First and Second Semesters, Sophomore, Junior or Senior Year, three hours. Course 1 is pre-requisite for 2.

1a. Practice in Observing.

Constellation study, descriptive observations of celestial objects, and other elementary exercises selected according to the interest and preparation of the student. One night-laboratory period per week.

Astronomy 1a may be elected only *with* Astronomy 1. Given when elected by a sufficient number of students.

13-14. General Astronomy. *Year Course.*

Covers the same ground as Astronomy 1-2, but more intensively; is strongly recommended in place of 1-2 for students with the requisite mathematical training.

Junior or Senior Year, three hours. Pre-requisites, Mathematics 3-4 and Physics 1-2. The same student may not elect both Astronomy 1-2 and 13-14.

15-16. Spherical and Practical Astronomy.

Particular attention will be paid to those phases of the subject which are of fundamental importance to the navigator and the civil engineer. One recitation and two laboratory periods per week.

First and Second Semesters, Junior or Senior Year, three hours. Pre-requisite, Astronomy 1-2 or 13-14 (may be elected with 13-14), and Mathematics 3-4. Course 15 is pre-requisite to 16. Given when elected by a sufficient number of students.

11. Modern Astronomy.

A careful study of the more important methods and results of Astrophysics.

First Semester, Senior Year, three hours. Pre-requisites, Astronomy 1-2 or 13-14, Mathematics 3-4, and Physics 1-2. Given when elected by a sufficient number of students.

18. History of Astronomy.

Second Semester, Junior or Senior Year, three hours. Pre-requisite, Astronomy 1 or 13.

5. Introduction to Celestial Mechanics.

First Semester, Senior Year, three hours. Pre-requisites, Astronomy 1-2 or 13-14, and Mathematics 5-6. Given when elected by a sufficient number of students.

6. Orbit Determination.

The actual computation of an orbit will be required.

Second Semester, Senior Year, three hours. Prerequisite, Astronomy 5. Given when elected by a sufficient number of students.

BIBLICAL LITERATURE

Professor Deane

It is the aim of this department to put the student into possession of the methods and apparatus of Biblical and religious study and thus to open the way for a permanent interest in the prosecution of these vital themes. While some freedom in the order of election is allowed, it is desirable that courses 11-12 should be covered in the Sophomore Year.

1-2. Biblical Introduction. *Year Course.*

A general introduction to Biblical study, covering in outline the traditional story of the Hebrew race, the rise of the Hebrew sacred literature, the life of Jesus Christ, the development of the New Testament writings, and the history of the transmission of the Bible to our day. The last part of the course is given to a study of selected examples of the different types of literature found in the Bible. Lectures and references.

Freshman Year, one hour. Given annually, and required of all students.

11-12. Old Testament History and Literature.

11. First Semester: the history of the Hebrews down to the division of the kingdom; the origin of the Hebrews and their relation to other Semitic peoples, their early religious and political institutions; character and contents of the historical books.

12. Second Semester: the history and literature of the Divided Kingdom, the Exile, and the Restoration; the rise and development of prophecy; beginnings of Jewish religious institutions and customs.

Sophomore Year, three hours. Elected by the semester, Given annually.

5-6. Wisdom Literature and Lyric Poetry.

Hebrew Wisdom: its nature and principles as seen in Job, Proverbs and Ecclesiastes; relation to Greek thought; influence upon Christianity. Lyric poetry of the Hebrews; its rise, development and final forms, with a study of representative examples.

First and Second Semesters, Sophomore Year, one hour.

7-8. Hebrew. *Year Course.*

The forms and syntax of the Hebrew language; readings in the Old Testament. The course includes a study of the genius of the language in its relation to the contents and permanent value of the Hebrew Scriptures. Students desiring this course should give early notice, as it will not be given every year.

Three hours.

10. Teachings of Jesus.

Ruling ideas in the religious and ethical teachings of Jesus, with some reference to the problems of today. The course embraces an account of existing religious conditions in the time of Jesus, and a study of the origin and mutual relations of the four Gospels.

First Semester, Junior or Senior Year, two hours. Given annually.

9. Christian Origins.

A study of the thought and life of the Apostolic Age as presented or reflected in the book of Acts and the Epistles, with special attention to the development of Christian doctrine and the beginnings of Church institutions and customs.

Second Semester, Junior or Senior Year, two hours. Given annually.

32. History and Science of Religion.

A study of the religious experiences of various races and of the different periods of individual and race development. Special attention is given to the development of the Hebrew religion and to the relation of Christianity to the other world-religions of today.

Second Semester, Sophomore, Junior or Senior Year, three hours.

NOTE—The attention of students in this department is directed to the courses in New Testament Greek (Greek 13-14), and in Religious Education (Pedagogy 6).

A MAJOR IN RELIGIOUS EDUCATION consists of Biblical Literature 10 and 9, Psychology 2, and Pedagogy 1 and 6. Pre-requisite, Biblical Literature 1-2, 11-12.

BIOLOGICAL SCIENCES

PROFESSOR DENSMORE, PROFESSOR KUNKEL,
MR. CHICKERING, MISS SAWYER

Biology

PROFESSOR DENSMORE

1. Plant Biology; forms a *Year Course* with 2.

An introductory course illustrating the general principles of Biological Science from the standpoint of plant life. The main topics treated are: living matter and the cellular organization of plants; the biology of green plants comprising their general structure, physiology, and reproduction; the biology of fungi, yeasts, and bacteria including their relation to fermentation, disease, and decay.

First Semester, three hours. Open to all classes. Given annually. For Freshmen forms a *Year Course* with 2.

PROFESSOR KUNKEL

2. Animal Biology; forms a *Year Course* with 1.

A laboratory course designed to acquaint the student with the general principles of Biology as illustrated by animals. The structure, reactions, nutrition, reproduction, relation to environment, and development of representative forms, are studied.

Second Semester, three hours. Open to all classes. Given annually.

BOTANY

PROFESSOR DENSMORE, MR. CHICKERING, MISS SAWYER

Requirements—Biology 1, or an equivalent course, is required as a pre-requisite for all courses in Botany. One lecture and six hours of laboratory work are required for all three-hour courses. Other courses require a proportionate amount of time.

Courses Offered Annually

1-2. Seed Plants and Ferns.

Courses 1 and 2 constitute a year course in general Botany. The year's work consists of two parts distributed as follows:

Local Flora. The first half of the fall semester is devoted to field and laboratory studies of certain families of the local fall flora, selected on account of their economic importance as food and forage plants. These families include the Compositæ, Gramineæ, Cruciferæ and Leguminosæ. Similar studies are made in the second semester of the Rosaceæ and the common forest trees.

Morphology. This portion of the course deals with the structure and development of the seed plants and ferns. The evolution of the plant body and the reproductive organs, the rise of heterospory and the origin of the seed habit, are the principal topics considered.

First and Second Semester, three times weekly. Prerequisite, Plant Biology 1. Elective by the semester. Students who wish to take the second semester's work without the first, may do so with the permission of the instructor.

Courses Offered in Alternate Years

Courses 3. 6, 5, 7 and 8 are all semester courses, but courses 3 and 6 will alternate in successive years with courses 5 and 7. Course 8 may be taken as a thesis course with courses 6 and 7 by Senior students who have had the pre-requisites.

3. Algæ and Fungi.

Field studies and laboratory work on the main groups of Algæ and Fungi. Emphasis on fungus diseases of trees and cultivated plants. Duggar's *Fungous Diseases of Plants* forms a basis for the courses.

First Semester, three times weekly. Pre-requisite, Plant Biology 1. Offered in 1915-16.

6. Plant Physiology.

Experiments, lectures and recitations on the physiological processes of plants. The laboratory work includes experiments in the physiological laboratory on Photosynthesis, migration and storage of foods, respiration, digestion, absorption and movements of water, irritability, and response in plants. Texts, Duggar and Barnes.

Second Semester, three times weekly. Pre-requisites, Plant Biology 1, and Botany 1-2. Offered in 1915-16.

5. Plant Anatomy.

The anatomy and histology of seed plants, with methods of preparing plant tissues for study, including fixing, mounting, and staining. Special attention is given to the structure of wood and to the growth and anatomy of forest trees. Text, Steven's *Plant Anatomy.*

First Semester, three times weekly. Pre-requisite, Plant Biology 1. Botany 1-2 are advised, as a pre-requisite. Offered in 1916-17.

7. Embryology and Cytology.

Students are taught special methods of staining and of preparing plant material for studies in plant embryology and cytology. The laboratory work includes the following studies: The development of the flower and the floral organs; the development of microspores and macrospores, the process of fertilization and development of the embryo in seed plants; vegetative and reduction mitoses in root tips and pollen mother cells. The lectures and assigned readings include, in addition to the above topics, consideration of Botanical problems concerned with fertilization, hybridization and heredity.

Second Semester, three times weekly. Pre-requisites, Plant Biology 1, and Botany 1, 2 and 5. Offered in 1916-17.

8. Thesis Course.

Special studies with collateral readings and a thesis are offered to Seniors who have taken Major work in Botany.

Second Semester, two times weekly. Given in connection with course 6 or 7.

A MAJOR IN BOTANY consists of 21 hours including Plant and Animal Biology and Botany 5 and 7.

A BIOLOGICAL MAJOR may be had by completing 18 hours of Botany including Biology 1-2, and by adding thereto 6 hours of Zoology elected from courses 2, 3 or 9, 10.

GENERAL COURSES. Courses 1, 2 and 6, together with the courses in Plant Biology, are designed to give students a general knowledge of plant life including the form, classification, structure and physiology of plants. These courses should be elected by students who desire a brief course in Botany for culture or for teaching Botany in high schools.

Special Courses recommended as a preparation for special lines of work.

Forestry: Courses 1, 2, 3, 5, and 6.

Agriculture and Horticulture: Courses 1, 2, 3, 5, 6 and 7.

Sanitary Science: Courses 3 and 6.

Teaching: Courses 1, 2, 3, 5 and 6.

ZOOLOGY

Professor Kunkel, Mr. Chickering

9. Natural History of the Mammals.

A general introductory laboratory course. The cat is dissected thoroughly. Lectures and readings on the anatomy, classification, habits and distribution of the mammals, supplement the laboratory work.

First Semester, three hours. Pre-requisite, Biology 2.

10. Human Physiology.

A course of recitations and lectures illustrated by demonstrations. Movement, digestion, assimilation, secretion, excretion, respiration, and circulation, are emphasized.

Second Semester, three hours. Pre-requisite, Biology 2.

2-3. General Zoology.

A laboratory course supplemented by recitations and lectures on comparative anatomy, habits and reactions of animals. In the first semester, special attention will be given to the insects, their identification, habits and life histories. In the second semester, the vertebrates will be studied.

First and Second Semesters, Sophomore, Junior or Senior Year, three hours. May be dropped after the first semester, but no student will be admitted to the course for the second semester alone. Pre-requisite, Biology 2. Given in 1915-16, and alternate years.

4. Histology and Histological Technique.

A laboratory course. The principal varieties of cells occurring in the vertebrate body are studied and practice in the methods of preparation of organs for microscopial study is given.

First Semester, three hours. Pre-requisites, Biology 2 and Zoology 9. Given in 1916-17, and alternate years.

5. Embryology.

A laboratory course. The development of the vertebrates from the germ cells to the mature conditions will be studied with special reference to the amphibian and the chick. The history of the germ cells, fertilization, cleavage of the egg and formation of the principal organs will be discussed together with theories of inheritance and development.

Second Semester, three hours. Pre-requisites, Biology 2, Zoology 9, 4. Given in 1916-17, and alternate years.

A MAJOR IN BIOLOGY may be had by adding to 18 hours of Zoology, 6 hours from Botany 1, 2, 3, 6.

A MAJOR IN ZOOLOGY consists of 18 hours which must include courses 2-3, 4 and 5 in addition to Biology 2, Biology 1 may count for three hours.

GENERAL COURSES—ZOOLOGY 9, 10, 2-3, are general courses for students desiring a broad view of the animal kingdom, and for students intending to teach natural history in high schools. Courses 9 and 10 are especially important for prospective teachers of human physiology.

Special Courses. For prospective medical students, courses 9, 2-3, 4 and 5 are specially recommended.

CHEMISTRY

Professor Smith, Associate Professor McLeod,
Mr. Buck

1-2. General Chemistry. *Year Course.* Given annually.

1. First Semester. The Non-metals.
2. Second Semester. The Metals.

The class is divided into three sections. One section is known as Advanced General Chemistry to which are admitted only students who have had at least one year of Elementary Chemistry. The laboratory work of this division supplements the work already done, and is largely of a quantitative character. There are three recitations or laboratory periods and one hour lecture weekly.

Freshman Year, three hours.

PROFESSOR SMITH

5-6. Quantitative Analysis.

5. First Semester. Gravimetric Methods.
6. Second Semester. Volumetric Methods.

Junior or Senior Year, three hours. Pre-requisites, Courses 1-2 and 3-4.

7-8. Organic Chemistry. *Year Course.*

7. First Semester. The Methane Series.
8. Second Semester. The Benzene Series.

Sophomore, Junior or Senior Year, two hours, or three hours when laboratory work is taken. Pre-requisite, courses 1-2.

16. Sanitary Chemistry.

A study of waters, drainage, air, foods, etc.

Second Semester, Junior or Senior year, two hours or three hours when laboratory work is taken. Pre-requisites, courses 1-2, 3-4, 7-8. Given in 1914-15 and in alternate years thereafter.

20. Teachers' Course.

Second Semester, Senior Year, one hour. (See under Pedagogy 10.) Given in 1914-15 and in alternate years thereafter.

30. Thesis.

Second Semester, Senior Year, two or three hours.

ASSOCIATE PROFESSOR MCLEOD

3-4. Qualitative Analysis. *Year Course.*

3. First Semester. Simple Reactions.
4. Second Semester. Analysis of natural compounds.

Sophomore Year, three hours. Pre-requisite, courses 1-2. Three laboratory periods and one lecture weekly. Given annually.

9-10. Physical Chemistry.

9. First Semester. Laboratory Course.
10. Second Semester. Lectures on theories of Chemistry.

Junior or Senior Year, three hours. Pre-requisites, courses 1-2, and Physics 1-2. It is desirable that students will also have had courses 3-4 and also Mathematics through Calculus.

18. Electro-Chemistry.

Second Semester, Junior or Senior Year, three hours. Pre-requisites as under courses 9-10. Given in 1915-16.

12. Applied Chemistry.

Chemistry in various industries, agriculture and the Arts.

Second Semester, Junior or Senior Year, two hours. Pre-requisites, courses 1-2. Given in 1915-16.

MR. BUCK

40. Stoichiometry.

A course in chemical calculations.

Second Semester, one hour. Open to any student who has completed course 1. Required of all students whose Major is in Chemistry.

A Major in Chemistry consists of courses 1-2 to be elected during Freshman Year, 3-4 during Sophomore Year; in addition a sufficient number of hours must be elected from courses 5, 6, 7, 8, 9, 10, 18, 30 and 40 to make up 24 hours, at least 6 hours being taken during Senior year. Students taking honors in Chemistry must elect course 30.

For Advanced Standing. Students who enter from certain approved secondary schools, and present more than the number of units required for admission to college, and have the *full equivalent* of courses 1-2, may, after presenting their records together with their laboratory note-books, and after passing a satisfactory examination, be admitted to advanced courses with accrediting of a certain number of hours, but without honor credits for the same.

CLASSIC ART AND LITERATURE

Professor Wright

1-2. Classic Art.

1. First Semester: Greek and Roman Art.
2. Second Semester: Renaissance Art.

Courses introductory to the elementary principles underlying all art, as illustrated in the architecture and sculpture of Greece and Rome and in the arts of the Renaissance. The students' work is based upon a laboratory study of the University Prints issued by the Bureau of University Travel. Lectures are illustrated by lantern slides and by the casts of the Fisher collection in the Art Hall.

Junior or Senior Year, three hours; elected by the semester. Given annually.

3-4. Greek Literature.

3. First Semester: Iliad, Odyssey, Lyric Poetry.

4. Second Semester: Greek Drama, Greek Prose.

This course is intended to be fundamental to the understanding of the more modern literatures, so far as they are based upon the form and content of the ancient Classics. The ancient works are studied in the best translations and compared with related forms in other literatures. Lectures are given on important phases of Greek life and Greek composition.

Three hours. Freshman year; elected by the semester. Given annually.

DRAFTING AND SURVEYING

Professor Hamilton, Mr. Wharry, Mr. Myers

MR. WHARRY

1-2. Mechanical Drawing. *Year Course.*

A course in drafting preparatory to machine-designing, architectural drawing, or civil engineering. The course covers simple lettering and dimensioning, isometric, cabinet, and orthographic projection of simple forms, together with elementary shades and shadows, tracing and blue-printing.

Three hours. Pre-requisite, Mathematics 1-2.

26. Drawing and Lettering.

A course which aims to give those parts of drafting which are most useful for the surveyor and civil engineer. Especial attention is paid to plain lettering preparatory to field note work of the surveyor. The simple elements of geometrical drawing, cabinet and orthographic projections are taken up, together with a limited amount of tracing and blue-printing. This course is not recommended for those who contemplate engineering-school work after leaving College; to such students the longer course 1-2, is commended.

Second Semester, Junior or Senior Year, three hours. Pre-requisite, Mathematics 1-2.

MR. MEYERS

5-6. Surveying. *Year Course.*

The general principles of land and city surveying and the elements of topographical surveying are given, abundantly illustrated by field work and reduction of data.

Junior or Senior Year, two hours. Pre-requisites, Mathematics 1-2, and Drafting and Surveying 1-2; or may be taken in conjunction with course 1-2. Given in 1916-17, and alternate years.

16. Surveying.

The general principles of land and city surveying, with illustration by field work and reduction of data.

First Semester, Junior or Senior Year, three hours. Pre-requisite, course 1-2. Given when five or more students demand it.

ECONOMICS

PROFESSOR SUFFERN, MR. BALLARD

21-22. Economics. *Year Course.*

The principles of economics, with some training in the application of these principles in the interpretation of the facts of present-day industry and commerce. Pre-requisite for all other courses in this department. Seager's *Principles of Economics* is used as a text, with assigned readings in other authors. Recitations, lectures, and exercises in the discussion of illustrative problems.

First and Second Semesters, Sophomore, Junior, or Senior Year, three hours. Given annually.

PROFESSOR SUFFERN

17. Commerce and Commercial Policies.

A brief resume of ancient and mediæval commerce, the effect of the discoveries and change in commercial routes upon social and economic conditions in Northern Europe, effects of the Industrial Revolution, economic conditions underlying trade policies, the effect of such policies upon the development of nations, trade policy of the United States.

First Semester, Junior or Senior Year, three hours. Pre-requisite, course 21-22. Given in 1915-16, and alternate years.

6. Railroad Transportation.

This course deals with the economic, social and legal aspects of transportation instead of the technical, and includes a discussion of the organization, functions, and administration of the railroads of the United States, and their relations to society and government.

Second Semester, Junior or Senior Year, three hours. Pre-requisite, course 21-22. Given in 1915-16, and alternate years.

9-10. Sociology. *Year Course.*

A study and interpretation of social evolution. Deals with the kinds of societies, demotic composition, the social mind, its factors and formation, differentiation and resemblance, the consciousness of kind, and concerted volition.

Analysis is made of the environmental and psychological factors which condition social organizations and social progress.

First and Second Semesters, Junior or Senior Year, three hours. Given in 1915-16, and alternate years.

23. The Labor Problem.

First Semester, Junior or Senior Year, three hours. Pre-requisite, course 21-22. Given in 1916-17, and alternate years.

24. The Trust and Corporation Problem.

Second Semester, Junior or Senior Year, three hours. Pre-requisite, course 21-22. Given in 1916-17, and alternate years.

3-4. Finance and Taxation.

First and Second Semesters, Junior or Senior Year, three hours. Pre-requisite, course 21-22. May be dropped at the end of the first semester. Given in 1916-17, and alternate years.

MR. BALLARD

15-16. Money, Banking and Commercial Crises.

The nature and functions of money, the evolution of a metallic currency, bimetallism, the quantity theorists and the relation of money to prices; credit, credit instruments, the significance of credit; principles and practices of banking, the chief foreign banking systems (with special reference to American problems), the national banks, the federal reserve system, domestic and foreign exchange; theory and history of crises, business barometers, prevention of crises.

First and Second Semesters, Junior or Senior Year, three hours. Pre-requisite, course 21-22. May be dropped at the end of the first semester without loss of credit. Given in 1915-16, and alternate years.

27. Business Organization and Management.

A study of the structure and life history of the entrepreneurial and co-operative types of organization; the economic factors determining the location and arrangement of plants and equipment, industrial concentration and integration; the principles and problems of management, particularly in regard to the labor supply, the use of statistical methods, and the marketing of goods; welfare work and industrial betterment. Assigned readings and discussions.

First Semester, Junior or Senior Year, three hours. Pre-requisite, course 21-22. Given in 1915-16, and alternate years.

28. Economic History of the United States.

This course aims to trace the significant movements in the commercial and industrial development of the country, and to show the manner and extent to which economic forces have determined its history. Some of the topics discussed are: Colonial industry and commerce, economic aspects of the Revolution, growth of manufacturing, of transportation, economics of the public land system, of slavery, the localization of industry, developments in finance, banking, and currency, etc. Assigned readings, topical reports, and discussions.

Second Semester, Junior or Senior Year, three hours. Pre-requisite, course 21-22. Given in 1915-16, and alternate years.

25-26. Accounting.

First and Second Semesters, Junior or Senior Year, three hours. Pre-requisite, course 21-22. May be dropped at the end of the first semester. Given in 1916-17, and alternate years.

12. Socialism.

Second Semester, Junior or Senior Year, three hours. Pre-requisite, course 21-22. Given in 1916-17, and alternate years.

29. Insurance.

First Semester, Junior or Senior Year, three hours. Pre-requisite, course 21-22. Given in 1916-17, and alternate years.

ENGLISH LITERATURE

PROFESSOR WELLS, PROFESSOR CLANCY, DEAN COOPER,
MR. HEDGES

PRE-REQUISITE FOR ADVANCED COURSES in English Literature is satisfactory completion of course 1-2.

For courses in Rhetoric and Composition, see Rhetoric.

PROFESSOR CLANCY, DEAN COOPER, MR. HEDGES

1-2. Introduction to the Study of Literature.

Year Course.

This is not a survey course or a study of history of English literature. The work of the year consists in careful study of selected notable pieces of English literature with the following ends in view: (1) to arouse to a realization of the vital worth and interest of literature; (2) to familiarize with the matter and the form of certain representative and influential works; (3) to assist to a notion of the chief characteristics of greater classes of literature. The course will proceed as follows: Drama, Narrative Poetry, Lyrical Poetry, Modern Prose.

Freshman Year, three hours. Given annually. Professor Clancy and Dean Cooper, each one division; Mr. Hedges, two divisions. See head-note.

PROFESSOR WELLS

3-4. Shakespeare.

A close study of about twelve of the plays of Shakespeare, and reading of several additional plays. Open class discussion to bring out dramatic and dramaturgic qualities, with special stress on ethical and universal elements of the works.

First and Second Semesters, three hours. Primarily for Sophomores. Elective by the semester. Given annually.

5. Old English.

The beginnings of the English language and literature. The grammar of Old English. Readings of selections of Old English prose and verse in the original, and of extensive selections in translation. Lectures on Old English literature and on the history of the language. Knowledge of German or of Latin is necessary for the pursuing of this course.

First Semester, Junior or Senior Year, three hours. Given in 1915-16, and alternate years.

6. Middle English, particularly Chaucer.

This course is literary. with no more attention to language than is necessary. A knowledge of Old English is not prerequisite. Rapid reading of a wide range of originals and modernizations to acquaint with the various forms and interests, aesthetic and social, of the literature from 1050 to 1400. The study centers about the principal work of Chaucer and its spirit as representative of the man and the period.

Second Semester, Junior or Senior Year, three hours. Given in 1915-16, and alternate years.

9. English Poetry, 1798-1832.

Study of poems of Scott, Byron, Shelley, Keats, Coleridge, and Wordsworth, to familiarize with the characteristics of the literature of the period, and the attitudes of the writers to contemporary and universal problems.

Second Semester, Junior or Senior Year, three hours. Given in 1916-17, and alternate years.

26. The English Novel.

A study, not of the history, but of the representative elements and the structure, of the Novel and of its types, to afford a general basis for appreciation of prose fiction. Careful study of several works, followed by rapid reading and discussion of a number of others, selected from both earlier and contemporary writers.

First Semester, Junior or Senior Year, three hours. Given in 1915-16, and alternate years.

20. Victorian Prose.

Careful study of the thought of Carlyle, Ruskin, and Arnold, or of other representative writers, as manifested in selected works, with special attention to its bearings on their own day and on the present time. Incidentally the materials are used to acquaint with various forms, and with methods for study, of prose writing.

Second Semester, Junior and Senior Year, three hours. Given in 1916-17, and alternate years.

29. Victorian Poetry, chiefly Tennyson.

Study of the development of the ideal of Tennyson in theory and in practice, of the growth of his power of expression, and especially of his treatment of problems of modern life and thought. Two other Victorian poets will be considered. Incidentally the materials are used to acquaint with the various forms, and with methods of study, of poetry as such.

First Semester, Junior or Senior Year, three hours. Given in 1915-16, and alternate years.

19. Victorian Poetry, chiefly Browning.

Close study of selected poems by Browning to afford an introduction to the characteristics of the poet's composition, and to acquaint with his conception of art and with his philosophy of life. Two other Victorian poets will be studied.

Second Semester, Junior or Senior Year, three hours. Given in 1915-16, and alternate years.

34-36. Contemporary Drama.

Study of general principles of stage-craft; general conditions of dramatic presentation during the next preceding and the present generations; current discussion of Drama; the history, aims and methods of the various groups of contemporary American and European playwrights and producers; significant plays of the more representative dramatists of the groups.

First and Second Semesters, Junior or Senior Year, three hours. Given in 1916-17, and alternate years. Elective by the semester.

40. Thesis Course.

Detailed study of a selected topic or writing, and preparation of an extended paper on some phase of it.

Second Semester, two hours. Elective; open only in the Senior Year.

DEAN COOPER

32. English Literature in the Eighteenth Century.

Careful consideration of the so-called Classical School; the development of the literature (exclusive of the novel) with special emphasis on the manifestation of the romantic spirit.

First Semester, Junior or Senior Year, three hours. Given in 1916-17, and alternate years.

21. Teachers' Course.

The course aims to crystallize the student's thoughts on literary topics, to discover something of the nature of specific problems of the teaching of English in secondary schools, to suggest methods of teaching literature and composition in the schools. Practice in presentation of subjects and in theme-reading.

Second Semester, Senior Year, two hours. Given annually. (See Pedagogy 10.)

MR. HEDGES

24-25. American Literature.

Study of work of greater representative nineteenth century writers—Irving, Cooper, Bryant, Emerson, Hawthorne, Whittier, Longfellow, Poe, Holmes, Thoreau, Lowell.

First and Second Semesters, Junior or Senior Year. Elective by the semester. Given in 1916-17, and alternate years.

28-38. Puritan Literature and Tradition.

In the first semester the work will centre on Milton; Spenser, Bunyan, and other writers will be considered. In the second semester, after consideration of the Miltonic and Puritan influence on later literature in England, the work will center on Hawthorne and Emerson; Edwards, Lowell, and Holmes, and perhaps one later American writer, will be noticed.

First and Second Semesters, Junior or Senior Year, three hours. May be dropped at the end of the First Semester; course 28 is pre-requisite to course 38. Courses 24-25 and 38 may not be elected by the same student. Given in 1915-16, and alternate years.

A Major in English Literature consists of courses 1-2, 3-4, 5 or 6, 20, 29, and one additional three-hour course. Those who expect to teach English should elect the Teachers' Course, 21. The student should take at least a semester of work in advanced Composition, i. e., Rhetoric 3 or 4.

RECOMMENDATION FOR TEACHING ENGLISH in high-schools will be given only to students who have completed work equivalent to that necessary to satisfy a Major in English Literature.

GEOLOGY

PROFESSOR COLLIE, MR. BUELL

PROFESSOR COLLIE

3-4. Commercial Geography.

3. First Semester.
4. Second Semester.

A course which seeks to explain and emphasize the relation of man and his activities to his environment of earth and water. Text-book, lectures and laboratory work.

Sophomore, Junior or Senior Year, three hours.

11-12. General Geology.

Lectures, laboratory work, and field excursions.

First and Second Semesters, Junior or Senior Year, three hours.

1-2. Physiography.

Lectures, laboratory work, and field excursions.

First and Second Semesters, Junior or Senior Year, three hours. Given in 1916-17.

7-8. Evolution.

7. First Semester: Evolution of animals.
8. Second Semester: Evolution of man.

Lectures and references.

Senior year, three hours. Pre-requisite Biology 1-2.

MR. BUELL

9-10. Palæontology.

9. First Semester: Palæozoic life.
10. Second Semester: Mesozoic and Cenozoic life.

Senior Year, three hours. Pre-requisite, Biology 1-2, Geology 11-12.

Note—All courses may be elected by the semester, but the second-semester courses are open only to those who have completed the work of the first semester.

Those desiring a Major in Geology should consult the head of the department.

GERMAN

Professor Dubee, Assistant Professor Menger

ASSISTANT PROFESSOR MENGER

1-2. Elementary German. *Year Course.*

A course for students who enter College without German. Essentials of German grammar, pronunciation, composition, and reading of easy prose.

Freshman Year, four hours.

PROFESSORS DUBEE AND MENGER

3-4. Intermediate German. *Year Course.*

Reading of the easier dramas of Schiller and Lessing. German composition, and constant review of German grammar.

Freshman or Sophomore Year, three hours. Pre-requisite, course 1-2, or two years of high-school German. Students who enter College with more than two years of German should consult the head of this department, before electing their German studies.

PROFESSOR DUBEE

7. German Conversation.

An elementary course in the practical use of German. Drill in the fundamental and idiomatic forms of the language.

First Semester, Sophomore, Junior or Senior Year, three hours. Pre-requisite, course 3-4. Not given in 1915-16.

8. German Conversation.

A continuation of Course 7. German conversation on topics from the industrial, civic, and political life of modern Germany.

Second Semester, Sophomore, Junior or Senior Year, three hours. Pre-requisite, course 7. Not given in 1915-16.

9-10. Advanced Syntax and Composition.

Writing of German themes, study of Jagemann's *German Syntax*, and discussion of linguistic difficulties.

Sophomore Year, three hours. Pre-requisite, German 3-4. Required of students who expect to teach German in high-schools.

ASSISTANT PROFESSOR MENGER

11. Mediæval Epics and Lyrics.

Reading of selections, in a modern German translation, from the German mediæval epics and lyrics. Lectures, reports.

First Semester, Sophomore Year, three hours. Pre-requisite, course 3-4.

12. Lessing.

Reading of either *Nathan der Weise* or *Emelia Galotti*; also one representative work of the Storm and Stress movement, reports.

Second Semester, Sophomore Year, three hours.

PROFESSOR DUBEE

25. Masterpieces of Modern German Prose.

A reading course outlined especially for Sophomores. Outside readings and reports.

First Semester, Sophomore Year, three hours. Pre-requisite, course 3-4.

14. The German Drama in the Nineteenth Century.

Reading of at least two important dramas, selected from the works of Freytag, Ludwig, Hebbel, Sudermann. or Hauptmann. Outside reading of at least two other dramas from this same group, and reports.

Second Semester, Sophomore Year, three hours. Prerequisite, course 3-4.

27. Cultural Forces in German Literature and Art.

A rapid review of the cultural forces in Germany, from the earliest beginnings to our own times. Lectures, outside readings. and reports. No knowledge of German is required for this course.

First Semester, Junior or Senior Year, two hours. Given in 1915-16, and alternate years.

17. Schiller and His Time.

A study of Schiller's Dramatic and Lyric works. Lectures on Schiller's artistic development, his influence on the Nineteenth Century, and the cultural conditions of his time. Reports on outside readings.

First Semester, Junior Year, three hours. Pre-requisite, course 3-4, and six semester-hours of more advanced German.

18. Schiller's Dramas.

A continuation of course 17. Critical reading of Schiller's greatest dramas. Lectures on Schiller's æsthetic and philosophical writings.

Second Semester, Junior Year, three hours. Pre-requisites, as under course 17.

20. Teachers' Course.

Methods of teaching German in the secondary school. Criticism of text-books. Class-visitation and practice-teaching.

Second Semester, Senior Year, one hour. Required of students who expect to teach German. (See under Pedagogy 10).

23. Goethe's Life and Works.

Careful reading and analysis of Goethe's Lyrics. His philosophy of life, his attitude toward Nature, and his æsthetic principles. Outside readings of Bielschowsky's *Goethe-Biography*, and reports.

First Semester, Senior Year, three hours.

24. Goethe's *Faust*.

This course should be taken as a continuation of course 23, which is intended as a preparation for Goethe's *Faust*.

Second Semester, Senior Year, three hours.

A MAJOR IN GERMAN must include 18 semester-hours, to be selected from courses 11, 12, 25, 14, 27, 17, 18, 23 and 24.

A GERMAN TEACHING MAJOR must include courses 9 and 10, and any 12 hours from courses 11, 12, 25, 14, 27, 18, 23 and 24.

GREEK

Professor Wright

1-2. Elementary Greek. Greek Grammar; Xenophon and Homer. *Year Course.*

This course, introductory to course 3, is offered to students entering College with no knowledge of Greek.

Freshman or Sophomore Year, four hours.

3. Homer.

Two or three books of the *Odyssey* are read slowly, with study of details in language and style; portions of the epic are then read much more rapidly, with a view to literary appreciation and to a study of the heroic life of Homeric Greece.

First Semester, Freshman Year, three hours. Pre-requisite, course 1-2, or its equivalent in high-school Greek.

4. Herodotus, Xenophon, and Plato.

Passages from Herodotus are made the basis of a review of the history of Greece during the Persian Wars and the century preceding. The life, character, and times of Socrates are studied from portions of the following texts: Xenophon's *Memorabilia* and *Symposium,* Plato's *Apology* and *Crito, The Clouds* of Aristophanes.

Second Semester, Freshman Year, three hours.

5-6. Euripides, Sophocles, and the Lyric Poets.

In these courses the history, form, and spirit of the Greek drama are studied. Three or four tragedies are translated, one of which is done in English verse by the members of the class. This version is often given in public as a dramatic rendering. During the latter part of the year selections from Greek Lyric Poetry are translated by the class and compared in style and content with the songs of other peoples.

First and Second Semesters, Sophomore Year, three hours. Elected by the semester.

7-8-9-10. Greek Orators, Philosophers, and Comedians.

To such students as are prepared for advanced Greek readings these semester courses are offered. The works studied are selected according to the requirements and tastes of the students electing.

Junior and Senior Year, two hours.

13-14. New Testament.

A study of the characteristics and styles of the Greek of the New Testament. This course is intended specially for students of Biblical Literature, and is counted toward a Major in that Subject.

First and Second Semesters, Junior and Senior Year, one hour.

HISTORY

PROFESSORS RICHARDSON, WAY, CALLAND

PROFESSOR RICHARDSON

1-2. European History to about 1500. *Year Course.*

This course offers a general view of the history of Europe from the fall of the Roman Empire in the West to the 13th century in the case of Germany, and to the 15th century in the case of France. Emphasis, however, is laid primarily on the nature and the meaning of the basic institutions and mental attitudes of the Middle Ages as underlying modern history and institutions. The course involves study of the transition from paganism to Christianity with the effects of the transition upon the Church; the relations of Church and State; monasticism; the Crusades; the beginnings of modern nationalities.

Freshman Year, three hours. Given annually.

47-48. History of Europe from 1500 to the Present.

A general course in the history of Europe from the Renaissance to the present time, continuing course 1-2.

Sophomore, Junior, or Senior Year, three hours. Elective by the semester.

7-8. English History. *Year Course.*

Lectures, written exercises, and reading on the political and constitutional history of England, from the Norman Conquest to recent times. The outlines of the present system of English government are first studied as described for example in Dicey's *Introduction to the Study of the Law of the Constitution.* An attempt is then made to trace the development of this system through its several stages.

Junior or Senior Year, three hours. Given annually.

PROFESSOR WAY

21-22. American Political History. *Year Course.*

A general course in the constitutional and political history of the United States from the Confederacy to the close of the Reconstruction Period. First Semester, 1783-1829; Second Semester, 1829-1876. Lectures, text-book, recitations, collateral reading and topics prepared from original sources.

Junior or Senior Year, three hours. Given annually.

28. Recent History of the United States, 1876-1910.

A study of the recent social and economic organization of the United States with special reference to the trend towards nationalization and commercial and colonial expansion. Lectures, discussions, conferences and collateral readings.

Second Semester, Junior or Senior Year, three hours. Given in 1915-16.

24. History of the West to 1840.

First Semester, Junior or Senior Year, three hours. Not given in 1915-16.

30. History of the Trans-Mississippi West, 1840-1910.

Second Semester, Junior or Senior Year, three hours, Not given in 1915-16.

31-32. American Diplomacy. *Year Course.*

This is Political Science 5-8.

25. Teachers' Course.

Lectures and text-books on the teaching of History in secondary schools. Class visitation; lesson plans; practice in teaching a class. Review of important periods of History taught in high-schools.

Second Semester, Senior Year, two hours. This course is intended only for those who intend to teach History in secondary schools. (See under Pedagogy 10.)

PROFESSOR CALLAND

16. Roman History.

Rome's early struggle for existence, the extension of her power over Italy and her conquest of the ancient world Emphasis will be laid upon Rome's military system, her provincial administration, the development of her literature and art, the economic causes which undermined the Republic, the reception of Christianity, the greatness and decline of the Empire to the Fifth century.

Second Semester, Freshman Year, three hours. Readings, recitations, and lectures. Given annually.

A MAJOR IN HISTORY consists of twenty-four semester-hours. Six of these must be European History 1-2 taken during Freshman or Sophomore year. The remaining 18 hours may be elected from the other courses offered in the department, barring course 25, except that :(a) Roman History 16, from considerations of continuity, will be accepted as partially fulfilling the Major requirement only when taken in Freshman year: (b) both English History

(7-8) and American History (21-22) must be taken at some time during Junior or Senior year: (c) twelve hours deemed consecutive by the department must be taken during Junior and Senior years.

Correlated Work. As correlated with History, the department recommends courses in Economics, Government, and Ancient and Modern Literature. The courses in Art, Biblical Literature, and the History of Philosophy have proved helpful to students in European History.

LATIN

Professor Calland, Professor Burr

PROFESSOR CALLAND

3. Cicero and Livy.

Cicero: *De Senectute* will be carefully translated and studied. Training in pronunciation, syntax of the subjunctive. Livy: Portions of Book XXI. Special studies in the Second Punic War, such as the art of war among the Romans, Hannibal as a military genius, etc.; Livy's literary style and his worth as a historian.

First Semester, Freshman Year, three hours.

4. Horace.

Most of the Odes and a few of the Epodes will be read. Work in scansion and training in metrical translation; critical study of Horace's life and literary style; Roman social and political life in the time of Augustus.

Second Semester, Freshman Year, three hours.

5. Plautus, Terence, and Seneca.

One play of Plautus will be translated carefully; one of Terence and one of Seneca will be read more rapidly. Emphasis is laid on the linguistic and literary importance of these authors; idiomatic translation. Frequently a Latin comedy has been translated into English verse by the class.

First Semester, Sophomore Year, three hours.

6. Tacitus.

The *Agricola* and *Germania*, and selections from the *Annales*. Pecularities of the author's style and syntax; readings by the instructor from other Latin authorities which may throw more light upon the history of the early Germanic race and its institutions.

Second Semester, Sophomore Year, three hours.

7. Roman Antiquities.

A course of lectures on the general topic: Public and Private Life among the Romans. The Roman assemblies, officials, temples, basilicas, thermæ, aqueducts, roads, the family, house, food, dress, schools, amusements, etc., are treated somewhat in detail. The work is illustrated by lantern slides. This course is of much practical as well as cultural value. No knowledge of Latin is required.

First Semester, Sophomore, Junior, or Senior Year, three hours. Given every year.

8. Latin Composition.

Latin forms and syntax are taken up in the grammars and thoroughly reviewed. Short sentences illustrating points of syntax are duly emphasized. More formal exercises in composition follow, the work being, for the most part, based on writings of Cicero previously read by the class. Courses 7 and 8 are required of students making Latin their Major.

Second Semester, Junior or Senior Year, three hours. Given in 1916-17.

16. Advanced Latin Composition.

A continuation of course 8. Extended passages of English prose will be turned into classical Latin; word order and idiom receive attention; simple conversation in Latin.

Second Semester, Senior Year, one hour or two hours. Given whenever elected by four or more students.

9-10-21-22. Translation at Sight.

Selections from various Latin authors, such as Cæsar, Nepos, Sallust, Ovid, Vergil, Pliny the Younger, and Aulus Gellius, will be translated as rapidly as possible. The object of the course is to enable the student to translate average Latin with greater comfort and rapidity. The reading of Latin without translating will be a feature of the course.

First and Second Semesters, Sophomore, Junior, or Senior Year, one hour. Given whenever elected by six or more students. If a third semester is taken it shall be numbered 21; if a fourth, it shall be numbered 22.

11. Cicero.

The *De Officiis* or *Disputationes Tusculanae* will be read with special reference to their ethical teachings and value. Assigned topics and discussions.

First Semester, Junior or Senior Year, two hours. Given in 1915-16.

13. Horace.

Selections from the Satires and Epistles. A study of Horace's philosophy of life; the influence of Greek philosophical schools on Horace's teachings. Papers on special topics.

First Semester, Junior or Senior Year, two hours. The course will be given occasionally instead of course 11.

12. Juvenal and Petronius.

Selections from Juvenal's Satires and Petronius' *Cena Trimalchionis.* Studies in Roman satire; Roman life under the Cæsars.

Second Semester, Junior or Senior Year, two hours. Given in 1916-17.

14. Lyric and Elegiac Poetry.

Selections from Catullus, Ovid, Propertius, and Tibullus.

The works and style of these writers will serve as a basis for the discussion of the literature in general of the Augustan Age.

Second Semester, Junior or Senior Year, two hours. This course will be given occasionally instead of course 12.

15. Lucretius.

A seminar course including translations of Book V and selections from other books of *De Rerum Natura*. Lucretius as a man, teacher, poet, and philosopher. Epicureanism among the Greeks and Romans; the atomic theory as a forerunner of modern scientific views.

First Semester, Junior or Senior Year, two hours. Given in 1915-16.

PROFESSOR BURR

18. Teachers' Course.

A careful review of portions of Cæsar, of the syntax of cases, and of Latin pronunciation; the ends and methods of the work in the first and second year of Latin; class visitation and practice teaching; comparison of text-books.

Second Semester, Senior Year, one hour.

20. Teachers' Course.

A review of one oration of Cicero, and one book of the *Aeneid*, of verb forms and syntax, and of versification; the ends and methods of the study and the teaching of these authors; the Latin and the English as means of the expression of thought; class-visitation and practice teaching; suggestions as to text-books and reference works.

Second Semester, Senior Year, one hour.

Note—Those planning to elect both 18 and 20, may take one in the Junior year. (See under Pedagogy 10.)

A Major in Latin consists of twenty semester-hours.

Students planning to make Latin their Major should elect Courses 3, 4, 5, 6, 7, 8, and two additional semester-hours from any of the other courses except 18 and 20. Courses 7 and 8 should be taken during the Junior and Senior years and these with six semester-hours of Classic Art will be accepted as the twelve hours of the Junior-Senior requirement. Latin Major students are advised to elect also History.

LIBRARY SCIENCE

Miss Butlin

1. General Reference.

The purpose of this course is to guide the student to an intelligent use of a modern library and to the pursuit of the various subjects in the college curriculum with greater facility. It is also recommended to those who contemplate graduate study or any form of research work. The course comprises lectures on the classification and arrangement of books in a library, bibliography, library catalogues, public documents and groups of reference books.

First Semester, one hour. Open to all classes. Given annually.

3. Library Methods.

A systematic study of the resources of a library as outlined above in course 1, to which is added a comparative study of library methods in general, with especial attention to cataloguing, classification and indexing. The course aims to qualify those expecting to teach to take charge of school libraries. Since library methods are so widely in use in the business world, the course should be of value also to those planning this career. Lectures, seminars and practice work in the library.

First Semester, two hours. Open to Sophomores, Juniors and Seniors. Given annually.

MATHEMATICS

PROFESSOR HAMILTON, ASSOCIATE PROFESSOR HAYNES,
MR. MEYERS

1. Trigonometry; forms a *Year Course* with 2.

The greater part of the course is devoted to the development of formulæ and the reduction of identities. Enough time is given to the solution of triangles and the use of tables to make the student thoroughly familiar with this kind of work. This course takes up the elements of Plane Trigonometry.

First Semester, Freshman Year, three hours. Given annually. Pre-requisite, one and one-half years in Algebra for entrance to College.

2. College Algebra; forms a *Year Course* with 1.

Much attention is given to graphical representation of linear equations and equations of the second degree. Mathematical induction and the binomial theorem for positive integral exponents, permutations and combinations, complex numbers, and the theory of equations, are among the subjects studied.

Second Semester, Freshman Year, three hours. Given annually. Pre-requisite, one and one-half years in Algebra.

1a-2a. Review of Algebra, Trigonometry, College Algebra. *Year Course.*

A course open to those who have presented for entrance to College both Plane and Solid Geometry, and but one year of Algebra. The work starts with a review of elementary Algebra, such as is usually given in the third semester of high-school Algebra, continues with Plane Trigonometry and College Algebra, covering practically the same ground as course 1-2.

Freshman Year, four hours. Pre-requisite, Plane and

Spherical Geometry and one year of Elementary Algebra. Given annually.

1b-2b. Solid and Spherical Geometry, Trigonometry, College Algebra. *Year Course.*

A course for those who have presented for entrance only Plane Geometry and either a year, or a year and a half, of Algebra. The work starts with Solid Geometry, continues with the Geometry of the Sphere, and takes up in addition practically the same matter as course 1-2.

Freshman Year, four hours. Pre-requisite, one year of Plane Geometry. Given annually.

3-4. Analytic Geometry and Beginning Calculus. *Year Course.*

The work in Analytic Geometry continues the graphical representation of courses 2, 2a, 2b, takes up the straight line, the circle and other conic sections, polar co-ordinates, and transformation of co-ordinates.

In the Calculus both differentiation and integration are taken up, with emphasis upon the fundamental notions underlying these operations. The principal fundamental formulæ are abundantly illustrated with problems.

Sophomore Year, four hours. Pre-requisite, courses 1-2, 1a-2a, or 1b-2b.

5-6. Differential and Integral Calculus. *Year Course.*

This is a continuation of 4. Stress is placed upon derivation of formulæ and problem solving. That the student may become as familiar with the processes and meaning of differentiation and integration, as he is with those or arithmetic, the course is conducted with little lecturing and with much recitation. The courses are for Mathematics Majors, for students interested in advanced Physics, and for those looking toward Engineering.

Junior Year, three hours. Pre-requisite, courses 3-4. Given annually.

23-24. Seminar in Practical Mathematics. *Year Course.*

This course is primarily for students of Chemistry and Physics who are interested in the practical applications of higher Mathematics.

Senior Year, two hours. Pre-requisite, course 3-4, and facility in reading German. Given in 1916-17, and alternate years.

7. Differential Equations.

A study of the history of ordinary and partial differential equations; equations of the first and second orders, linear equations with constant and variable coefficients, solutions in series, simultaneous equations, partial differential equations of the first and higher orders.

First Semester, Senior year, three hours. Pre-requisite, course 5-6.

8. Solid Analytic Geometry.

An elementary course in the Analytic Geometry of three dimensions. A study is made of the plane, of quadric surfaces, and plane sections of conicoids.

Second Semester, Senior Year, three hours. Pre-requisite, course 5.

27-28. Theory of Equations.

The Theory of Equations, with an introduction to binary forms and invariants.

First and Second Semesters, Senior Year, three hours. Pre-requisite, course 5-6.

29. Theory of the Complex Variable.

Lectures on the Theory of Functions of the Complex Variable, illustrated by examples. Many exercises to be worked out by the student.

First Semester, Senior Year, three hours. Pre-requisite, courses 5-6.

30. Synthetic Projective Geometry.

Lectures, reports, readings, and exercises, dealing with the elementary portions of Synthetic Projective Geometry with construction problems.

Second Semester, Senior Year, three hours. Pre-requisite, course 3-4.

13-14. Descriptive Geometry.

The course deals with the mathematical theory of the representation of objects on a plane. It includes a thorough study of orthographic projection, some practice in perspective, and a somewhat complete view of the various methods used in map making, such as spherical, conic and other forms of projections.

First and Second Semesters, three hours. Pre-requisite, Mechanical Drawing. Given in 1915-16, and in alternate years.

22. History of Mathematics and Teaching of Mathematics.

This course is designed to give a fair idea of the historical development of elementary Mathematics. It is especially recommended to those who expect to teach Mathematics, and to those who are interested in the development of thinking by the race.

Second Semester, Sophomore, Junior or Senior Year, three hours. Pre-requisite, course 3-4, or equivalent. Given when demanded by a sufficient number of students.

Beginning with the class of 1914, a Major in Mathematics will consist of courses 1-2, 3-4, 5-6, and two courses from courses 7, 8, 27, 28, 29, 30. In general only course 1a-2a or 1b-2b may take the place of course 1-2. Of courses 7, 8, 27, 28, 29, 30, but one is given in any one semester.

MUSIC

ASSISTANT PROFESSOR SLEEPER

1-2. Elementary Music. *Year Course.*

General introduction to the study of music.

Freshman Year, one hour.

3-4. Harmony. *Year Course.*

Some ability in piano playing is required of students who elect Harmony.

Sophomore Year, three hours. Pre-requisite, course 1-2.

11-12. Counterpoint. *Year Course.*

In courses 1-2, 3-4, and 11-12, emphasis is laid upon original work.

Junior or Senior Year, three hours. Pre-requisite, courses 1-2, 3-4. Given when elected by a sufficient number of students.

7-8. General History of Music.

First and Second Semesters, Junior or Senior Year, three hours. No pre-requisite. Given in 1914-15, and in alternate years.

13-14. Appreciation of Music.

Analytical study of masterpieces from the point of view of the listener.

First and Second Semesters, Junior or Senior year, three hours. No pre-requisite. Given in 1915-16, and alternate years.

15. Choir-Training.

Conducting, choir-training, and selection of suitable music for choirs and school-choruses.

First Semester, Junior or Senior Year, two hours. Pre-requisite, course 1-2.

18. Sight Reading.

Instruction and practice in reading music, and simple exercises in voice culture.

Second Semester, two hours given credit as a one-hour course. No pre-requisite; courses 1-2 and 18 may not be taken simultaneously.

Courses in Music may be elected only after consultation with the Instructor.

PEDAGOGY

Professor Burr

1. Applied Psychology.

A study of the conditions and principles of mind-development in the process of education, and of their applications in the callings of life. Lectures, assigned readings, and discussions.

First Semester, Junior or Senior Year, three hours. Pre-requisite, Psychology 2.

2. Methods and Organization.

The ends and methods of class-instruction in secondary schools, their courses of study and their organization. Lectures, readings, lesson-plans, practice teaching, and reports on observation.

Second Semester, Junior or Senior Year, three hours. Pre-requisite: For Juniors, Pedagogy 1; For Seniors, Psychology 2.

4. History of Education.

The aims and the methods of Greek and of Roman education, and of the educational reformers of the seventeenth, eighteenth, and nineteenth centuries. Text-book and assigned readings.

First Semester, Junior or Senior Year, three hours. The above courses 1, 2, and 4, are given each year.

6. Moral and Religious Education.

The moral and religious life; its psychology; its child, adolescent and adult types; the means and methods of its unfolding and growth in the home, the Sabbath School, the Public School, and in the various forms of religious work. Lectures, readings and discussions.

The purpose of the course is to prepare for service in the home, as teachers, as Y. M. C. A. and Y. W. C. A. secretaries and assistants, as missionaries, pastor's assistants, and as members of church and society.

First Semester, Junior or Senior Year, two hours. Prerequisite for credit in the course, Psychology 2.

10. Teachers' Course.

Teachers' Courses are offered in Botany, Chemistry, English, German, History, Latin, Mathematics, Physical Geography, Physics, and Zoology. Descriptions of these courses will be found under the respective departments. Only two semester-hours of these courses are accepted by the College towards the 120 hours required for graduation. Such courses are to be elected under Pedagogy 10 and do not count towards a Major or other requirements of the several departments.

Second Semester, Senior Year, one hour or two hours, Before electing Teachers' courses, students will confer with the head of the department of Pedagogy.

COMBINATIONS OF COURSES. Those who expect to teach in the smaller high-schools should endeavor to make these combinations in their preparation:

Botany and Physical Geography.
English, and Latin or German or History.
Latin and German.

Mathematics, and Physics or Chemistry.
History and Civics.

Note—Those who desire the license to teach, issued by the State Superintendent of Public Instruction of Wisconsin, and the State Certificate granted by the State Board of Examiners, should elect twelve hours, as follows: Psychology 2, Pedagogy 1 or 2, Teachers' courses amounting to two hours, and in addition four hours from the following courses: Pedagogy 1, 2, or 4, Psychology 10.

The Committee on Appointments assists in placing those who are prepared to teach, and in aiding the Alumni of the College who seek advancement as teachers.

PHYSICS

Professor Culver

1-2. General Physics. *Year Course.*

A general elementary course, covering Mechanics, Heat, Wave-motion and Sound, Light, Electricity, and Magnetism. Lectures and recitations on a standard text, accompanied by a systematic course in quantitative laboratory practice.

Sophomore Year, four hours, consisting of three hours of lectures or recitations and one three-hour laboratory period. Pre-requisite, Mathematics 1-2.

3. Theory of Experimental and Applied Electricity.

A course of lectures, with collateral reading, on the fundamental principles of modern electrical appliances and machinery, together with a discussion of electric waves and their application to wireless telegraphy and telephony, the conduction of electricity through gases, and radio-activity.

First Semester, Junior or Senior Year, three hours.

Pre-requisites, course 1-2, and Mathematics 5-6. Given in 1915-16.

5. Electrical Measurements.

A laboratory course, covering the refined measuring of resistance, electromotive force, current, inductance, power; the standardization and calibration of the various electrical meters; and the testing of the magnetic properties of iron.

Second Semester, Junior or Senior Year, three hours. Pre-requisites, course 1-2. The student is also urged to take course 3 before electing the course in Electrical Measurements. Given in 1915-16.

4. Light.

An advanced study of the theory of physical optics, covering refraction, dispersion, absorption, interference, diffraction, polarization, magneto-optics, fluorescence, and phosphorescence. The course will also include a treatment of the theory of optical instruments. Lectures and recitations based on Wood's *Physical Optics*, together with collateral reading.

Second Semester, Junior or Senior Year, three hours. Pre-requisite, course 1-2 and Mathematics 5-6. Given in 1915-16, and alternate years.

9. Musical Acoustics.

The subject matter of this course constitutes the physical theory of music, and will involve a treatment of the physical basis of pitch, chords, scales, quality, and the law of vibration of strings, plates, rods, and air in pipes. Lectures with illustrative experiments.

Second Semester, Junior or Senior Year, three hours. Given in 1916-17, and alternate years.

11-12. Theoretical Mechanics. *Year Course.*

The course will cover the fundamental principles of statics and dynamics. The subject will be treated from an engineering standpoint, special attention being given to practical problems. Lectures and recitations based on a standard text.

Junior or Senior Year, three hours. Pre-requisites, course 1-2 and Mathematics 5-6. Given when elected by enough students to form a class.

15-16. Advanced Measurements.

A laboratory course consisting of advanced experiments in mechanics, heat, sound, and light.

First and Second Semesters, Junior or Senior Year, two hours. Elected by the semester. Pre-requisite, Physics 1-2. Given annually.

A Major in Physics shall consist of courses 1-2, 3, 5, a thesis (three hours) and any other three hours, except course 9.

The general course, 1-2, is designed to meet the requirements of those who wish to pursue the subject of physics as part of a liberal education, and also of those who desire to lay a foundation for advanced study, or to enter engineering courses.

Courses 1-2, 3, 5, and 15-16 should be taken by those expecting to study medicine or electrical engineering, or to teach physics.

Courses 11 to 16 inclusive should be taken by those planning to enter the other engineering professions.

A thesis, for which three hours credit is given, is required of all students majoring in this department

POLITICAL SCIENCE

Professor Way, Judge Rosa

1-2. American Government and Politics. *Year Course.*

1. First Semester. An introductory study of the fundamental principles of Political Science, followed by a general study of the American system of national government.

2. Second Semester. A study of state, local, and city governments, with their interrelations, political parties and the connection of all with the American national system of government.

This course is the introductory course in Political Science. Sophomore, Junior or Senior Year, three hours. Given annually.

3. International Law.

Essentials of public international law in peace and war.

Junior or Senior Year, three hours. In 1915-16 given in the Second Semester; in alternate years thereafter, in the First Semester.

4. Municipal Government in the United States.

Growth of cities; municipal organization and functions in the United States; police; light and water supply; urban transportation; municipal ownership or control of public utilities; charities; education; city planning. Recitations, lectures, assigned studies and reports.

Second Semester, Junior or Senior Year, three hours. Not given in 1915-16. In 1916-17 students may elect course 2 in which the main substance of 4 will be given.

5-8. American Diplomacy, 1783-1910. *Year Course.*

International relations of the United States from its establishment to the present time, and the progress of international law.

Junior or Senior Year, three hours. Open only to those who have taken or are taking History 21-22. Given in 1916-17, and alternate years. The same course as History 31-32.

6. Political Theories and Philosophy of the State.

The origin, nature, forms and functions of the state. The political theories of Aristotle, Machiavelli, Hobbes, Locke, Rousseau, Montesquieu, and the evolution of American political ideas, will be explained.

Second Semester, Junior or Senior Year, three hours. Given in 1916-17, and alternate years.

7. Constitutional Law of the United States.

General study of the Constitutional law of the United States. The students prepare briefs of the famous court decisions as found in Supreme Court Reports. The course can be taken most satisfactorily after courses 1-2 and History 21-22.

First Semester, Junior or Senior Year, three hours. Given in 1916-17, and alternate years.

10. European Governments.

A study of the constitutional organization of the principal governments of Europe, especially England, France, and Germany, with considerable attention to political parties and current political questions.

Second Semester, Junior or Senior Year, three hours. Given in 1915-16, and alternate years.

JUDGE ROSA

9. Commercial Law.

This course aims to present in a practical manner the Law of Contracts and Business Relations. An authoritative law text is used and cases are studied.

First Semester, Junior or Senior Year, two hours.

A Major in Political Science consists of 21 hours, which shall include courses 1-2, 3 or 7, and 5-8. They should be taken in the order indicated. Course 1-2 should be taken in Sophomore year. All students majoring in this department should be well grounded in the ancient languages, and should have a good reading knowledge of French and German.

The department recommends election, under its advice, from the following courses as correlated subjects: History 7-8, 11-12, 21-22; Economics 21-22; History of Modern Philosophy.

A Combined Major in Political Science and American History may be taken by electing, with the advice of the department of Political Science, courses 1-2, History 21-22 (American Political), with 9 additional hours in Political Science, American History, or both.

PSYCHOLOGY AND PHILOSOPHY

Professor Waugh, Professor J. F. Crawford

1. Logic.

An introduction to the elements of logic, with some reference to the problems of philosophy. The course aims to give the fundamentals of scientific and historical method and to afford training in correct logical procedure. Lectures and exercises. Text: Hibben.

First Semester, Sophomore, Junior or Senior Year, three hours.

2. Elementary Psychology.

An introductory course, giving, by means of lectures, recitations, and demonstrations, a general survey of the essential facts and fundamental laws of mind. Texts: Pillsbury and James.

First Semester, Junior or Senior Year, three hours.

2. Elementary Psychology.

A repetition of the preceding course.

Second Semester, Sophomore, Junior or Senior Year, three hours.

4. Advanced Psychology.

An intensive study of selected problems. For 1915-16 the work will be a study of the applications of psychology to the professions of law and medicine, and to the business world, advertising, salesmanship, scientific management, etc.

Second Semester, Junior or Senior Year, three hours. Pre-requisite, course 2.

9. Comparative Psychology.

A systematic study of mental development in the race. The course will sketch the evolution of mind in the animal series. Lectures, reports, and paper on some selected topic. Text: Washburn, *The Animal Mind*.

First Semester, Junior or Senior Year, three hours. Pre-requisite, course 2.

10. Psychology of the Child.

A genetic study of mind in the individual. The course will trace the growth of mental functions in childhood, with special reference to educational theory. Text: Drummond, *Introduction to Child Study*.

Second Semester, Junior or Senior Year, three hours. Pre-requisite, course 2.

7. Ethics.

A study of the psychological basis of conduct, the growth of moral ideas, the moral standard, and various practical moral problems.

First Semester, Junior or Senior Year, three hours.

8. Metaphysics.

An introduction to philosophical problems and tendencies.

Second Semester, Junior or Senior Year, three hours. The instructor must be consulted before this course is elected.

5. History of Ancient and Mediæval Philosophy.

The development of philosophic thought, from the Greeks to the Renaissance. Lectures, reading and theses. Texts: Cushman,*A Beginner's History of Philosophy, vol. 1*, Bakewell, *Source Book in Ancient Philosophy.*

First Semester, Junior or Senior Year, three hours. Alternates with course 15. Given in 1915-16.

6. History of Modern Philosophy.

The growth of European thought, from Bacon and Descartes through the 18th Century. Lectures and required readings. Texts: Cushman *vol. II*, Rand, *Modern Classical Philosophers.*

Second Semester, Junior or Senior Year, three hours. Alternates with course 16. Given in 1915-16.

15. History of Modern Philosophy since Kant.

The growth of European thought during the 19th Century. Texts: Cushman, Rand.

First Semester, Junior or Senior Year, three hours. Alternates with course 5. Given in 1916-17.

16. Contemporary Philosophical Tendencies.

A critical study of recent philosophical movements. Lectures, readings and theses.

Second Semester, Junior or Senior Year, three hours. Pre-requisite, one of the three preceding courses. Alternates with course 6. Given in 1916-17.

13-14. Experimental Psychology.

This course gives an introduction to Experimental Psychology, and aims to familiarize the student with modern psychological methods, apparatus, and results. Typical experiments in the psychology of the senses, feeling, and movement. Application of Mental Tests. Lectures, laboratory work, and required readings.

Junior or Senior Year, three hours. Pre-requisite, course 2. Elective by the semester.

11. Social Psychology.

A study of the social factors in the development of the individual and in the organization of society. Texts: Cooley, *Human Nature and the Social Order*, *Social Organization*.

First Semester, Junior or Senior Year, three hours.

12. Social Ethics.

A discussion of certain social problems of modern life, and of movements directed toward the improvement of social conditions, with special reference to their ethical significance. Lectures, readings, and reports.

Second Semester, Junior or Senior Year, three hours.

3. Advanced Logic.

A study of recent logical theories. Lectures, readings, and theses.

First Semester, Junior or Senior Year, three hours. Pre-requisite, Logic 1. The instructor must be consulted before this course is elected.

18. Esthetics.

This course aims to develop a general theory of art-work which shall apply to all the fine arts. The psychology of the esthetic state is discussed and special attention is given to the problems of unity, symmetry, rhythm, etc. Text: Gordon, *Esthetics.*

Second Semester, Junior or Senior Year, three hours. Pre-requisite, Psychology 2. Given when desired by a sufficient number of students.

20. Psychological Seminar.

From time to time a reading course may be organized, dealing with some particular topic, or reviewing the articles in current psychological journals.

A Major in Philosophy and Psychology consists of Psychology 2, and fifteen other semester-hours selected from the courses in the department. Pedagogy 1 may be included.

PUBLIC SPEAKING

Assistant Professor Crawford

1-2. Elementary Speaking. *Year Course.*

This is an elemental course and a pre-requisite to all other work except courses 5, 10 and 11. The fundamentals aimed at are as follows: thought conception, power of analysis, orderly arranging of one's thoughts, mental grasp, self-control before the public and the effective delivery of a definite message. Incidentally such technique as the voice demands, together with the correction of platform bearing, completes the course. The work is developed by practical exercises and short original speeches.

Freshman Year, one hour.

5. Argumentation.

A study of the principles of analysis, brief-drawing, evidence, and persuasive presentation, designed to give the student ability in constructive thinking and in testing the argument of others. Three long forensics and numerous short exercises are required. Text-book, lectures, and outside readings. This course is pre-requisite to Public Speaking 3, 6, and 9.

First Semester, Sophomore or Junior Year, three hours.

6. Debating.

A practical and critical course in debate. Students appear in three debates before the class. The gathering of material, brief-drawing, and construction of the argument are done under the personal direction of the instructor. Each student also speaks several times from the floor. The theory of debate, including burden of proof and methods of proof and refutation, are studied, together with the elements of effective presentation upon the platform.

Second Semester, Sophomore, Junior or Senior Year, three hours. Pre-requisite, course 5. As the size of the class is limited, the consent of the instructor must be obtained for entrance to the course.

8. Extempore Speaking.

Students speak regularly before the class upon topics that have been assigned for investigation. The form of a short extempore speech to meet varying situations, is first discussed critically and then practiced by the class. The aim constantly kept in mind is to stimulate students to think out their own opinions, to use the library as a storehouse of material, and to acquire fluency in platform presentation.

Second Semester, Junior or Senior Year, three hours. Pre-requisite, course 1-2, or 5-6.

3. The Forms of Public Address.

A study is made of the more important kinds of public address, including the eulogy, after-dinner speech, political speech, and speech for a special occasion. Under each form an analysis of masterpieces and a study of principles precede the composition by members of the class.

First Semester, Junior or Senior Year, three hours. Pre-requisite, course 5, or Rhetoric 3.

9. Political Speaking.

This course will be offered only to those specially qualified for the work. The Presidential and Congressional elections furnish the background for the course. The campaign questions, methods and speeches will be studied and opportunities to address political assemblies given.

First Semester, Senior Year, two hours.

10. Literary Interpretation, for Women.

This is a fundamental course in expressional reading. The purpose is to give oral expression to those thoughts in literature that too often are only faintly realized. Only Nature's and Truth's own response is developed. Expression for the real message's sake and not for art's sake is sought. This course is especially adapted for prospective teachers of literature.

First Semester, Sophomore, Junior or Senior Year, two hours.

11. Public Speaking, for Women.

This course has two aims: first, to fit young women for all those public and semi-public occasions at which they might be called upon to speak; and, second, to give instruction in teaching declamation and public speaking in high-schools. Addresses varying with the social occasions will be studied, composed and delivered. The organizing and conducting of public and social meetings together with incidental technique of the voice and practice in teaching one another.

Second Semester, Sophomore, Junior or Senior Year. Elective as one hour or two hours.

RHETORIC

Professor Clancy, Dean Cooper, Mr. Hedges

1-2. Rhetoric. *Year Course.*

Textbook study, theme-writing, and considerable outside reading. Each student meets his instructor in frequent individual conferences. Students who are found to be deficient in spelling, punctuation, grammar, or sentence structure, will be required to take special work to make up the deficiency.

Freshman Year, two hours. Required of all students.

PROFESSOR CLANCY

3-4. Advanced Composition.

For students who desire further practice in expository and descriptive writing. Principles formulated inductively from a study of contemporary prose. Several papers of considerable length are required.

First and Second Semesters, Sophomore, Junior or Senior Year, three hours. The first semester is a pre-requisite of the second, except for students who have made an exceptionally high grade in Rhetoric 1-2. In the second semester, because of the large amount of outside reading, the class will meet in recitation but twice a week. Given annually.

5. Argumentation.

See under Public Speaking.

10. Journalistic Writing.

This course gives considerable practice in the writing of news stories, editorials, criticisms, and the like. Students are asked to do actual reporting in the city, and for a few weeks a college newspaper is published by the class.

There is also some examination of the purpose and methods of the modern newspaper.

Second Semester, Junior or Senior Year, two weekly class periods counting as three hours. Pre-requisite, one year of Advanced Composition. Given in 1915-16.

12. Short Stories.

A study of the technique of the short story as a form of literary art with considerable practice in narrative writing. Lectures, textbook study, and assigned readings.

First Semester, Junior or Senior Year. Two hours. Pre-requisite, one year of Advanced Composition. Election of this course should be made only after consultation with the instructor. Given in 1916-17.

ROMANCE LANGUAGES

Professor Young, Mr. Wisewell

French

1-2. Beginning French. *Year Course.*

The elements of French grammar, the reading of easy texts; drill in pronunciation; composition.

Freshman or Sophomore Year, three hours.

3-4. French Readings.

Modern short stories and dramas. Six lectures each semester on the development of French literature. Conversation and composition.

First and Second Semesters, Sophomore, Junior or Senior Year, three hours.

PROFESSOR YOUNG

5-6. French Drama or Novel.

Study of the drama or the novel from the beginnings to the present day.

First and Second Semesters, Junior or Senior Year, three hours. Pre-requisite, course 3-4, or an equivalent. Given in 1916-17.

7-8. Conversation and Composition.

First and Second Semesters, Junior or Senior Year, three hours. Pre-requisite, course 3-4, or an equivalent.

9-10. General Survey of French Literature.

Reading of representative works from the Renaissance to the present day. Lectures, outside reading, and reports.

First and Second Semesters, Junior or Senior Year, three hours. Pre-requisite, course 3-4, or an equivalent. Given in 1917-18.

11-12. Masterpieces of French Literature of the Nineteenth Century.

Study of the great works of the nineteenth century. Lectures, assigned readings, and reports.

First and Second Semesters, Junior or Senior Year, three hours. Pre-requisite, course 3-4, or an equivalent. Given in 1915-16.

NOTE—Any two of the courses 5-6, 9-10, 11-12, which are given in rotation, may be taken in successive years.

Italian

PROFESSOR YOUNG

1-2. Elementary Italian. *Year Course.*

Elements of grammar, reading of easy texts, drill in pronunciation, composition.

Sophomore, Junior or Senior Year, three hours. To alternate with Spanish 1-2. Given in 1916-17.

3-4. Italian Literature.

The greater part of the time in this course will be devoted to the study of Dante, but there will also be consideration of other writers and some drill in the practical use of the language.

First and Second Semesters, Junior or Senior Year, three hours. Given in 1915-16, and alternate years.

Spanish

PROFESSOR YOUNG *or* MR. WISEWELL

1-2. Elementary Spanish. *Year Course.*

The course consists of the elements of grammar; the reading of easy texts; drill in pronounciation, and composition.

Sophomore, Junior or Senior Year, three hours. Given in 1915-16.

3-4. Advanced Spanish.

Reading of modern novels and plays. According to the wishes of the class, a part of the time will be given to conversation or an introduction to Commercial Spanish.

First and Second Semesters, Junior or Senior Year, three hours. Given in 1916-17, and alternate years.

A MAJOR IN ROMANCE LANGUAGES consists of 24 semester-hours, with French 1-2 or an equivalent as pre-requisite.

Award of Prizes

1913-1914

THE LEWIS PRIZE

Chrissie Louise Crawford	Class of 1914

THE ORVIS AND ROWNTREE PRIZES

Wayne Allen	Class of 1917
Harold Joseph Bickford	Class of 1917
Clarence Charles Reimer	Class of 1917

THE RICE PRIZE

Cornelius C. Cunningham	Class of 1915

THE MISSIONARY PRIZE

Raymond Millard Barron	Class of 1915

THE LOGAN PRIZES

Edmund Lewis Jacobsen	Class of 1915

THE HAY PRIZE

Not awarded

THE FINE ARTS PRIZE

Winifred Bates	Class of 1914

THE HORACE WHITE PRIZE

Bernice Cornelia Brunsvold	Class of 1916

THE JACKSON J. BUSHNELL PRIZE

Thornton Wilcox	Class of 1915

THE ELIZABETH MCMOLLEN PRIZE

Clark Payne Currier	Class of 1914

Degrees Conferred at Commencement
1914

BACHELOR OF ARTS

Summa Cum Laude

Edna Viola Amborn
Clark Payne Currier

Magna Cum Laude

Blanche Morton Howard

Cum Laude

Winifred Bates
Earl James Caskey
Gertrude Moss Chesbrough
Louise Chrissie Crawford
Hazel Marguerite Fuller
Juanita Priscilla Kilbourn
Amy McOwan
Marjorie Warren Nethercut
Louise Winifred Pierce
Henrietta Renwick
Marion Russell
Laura Josephine Thompson
Bessie Muriel Weirick

John Gorman Alpine
Morgan MacDonald Anderson
Lynn Alan Bates
Eunice Harriet Beane
Ruth Christie
Eleanor Jane Eakin
Cordelia Emerson
Raymond Oswald Funk
Philip Marshall Gray
Gladys Spafford Gregory
Everett Charles Hartley
Charles Rutherford King
Agnes Gertrude McGarvey
John George Martin
Marjorie Marie Murdock
Marshall Mills Northrop
Earl Dalton Raisen
Marie Sterling
Julia Sullivan
Emily Thornton
Harold Hamilton Wade
Elizabeth Marie Wickhem
Harold Allen Willard
Mary McKnight Williams
Ralph Stephen Williams
William Roland Williamson
Clair Linton Woodward

BACHELOR OF SCIENCE

Cum Laude

Mary DeLancey
Margaret Elizabeth Mills
Ralph Sayre
Arlie Sutherland

Lynn Ellis Aldrich
Robert Larkworthy Bridgman
Homer Allen Buck
Emory Moran Canright
Irving Hubner Krengel
Kathryn Marion Merriman
Richard Goodhue O'Connor
Clifford J. Pearsall
Rebecca Smith
Harold Stephen Theobald
Hallie Frances Turner
Charles Thomas Way

Class of 1913

Bachelor of Arts—Lillian Margaret Saxton

Class of 1892

Bachelor of Arts—Edward J. Breitzman

DEPARTMENTAL HONORS

Botany	Arlie Sutherland
German	Louise Chrissie Crawford
History (Thesis in Political Science)	Clark Payne Currier
Modern Languages	Gertrude Moss Chesbrough

THE STUDENT COUNCIL

1917

Raymond Millard Barron
Filmer Stuart Cuckow
Clifford Louis Day
Ellis Houston Denney
Jennie Marion Dudley
Roy Stewart Steiner
Helen Knight Stout

1916

Ralph S. Hay
Raymond H. Keeler
Glenne Roy McArthur
Margaret Forrester McLay

1915

Raymond H. Keeler
Alice Sheridan Kingsley
F. Herbert Miller

1918

Alice Alberta Farnham
Manderson Lehr
Mitchell Todd

The Students

In the following directory, C. H. stands for Chapin Hall, E. H. for Emerson Hall, J. H. for Junior House, S. C. for Stowell Cottage.

SENIOR CLASS

Ahlgren, Oscar Alexander	Whiting, Ind.	Hillcrest
Bachus, Arthur Carl	Fort Atkinson	424 Prospect St.
Barker, Leavitt Randall	Clinton, Ia.	1248 Chapin St.
Barron, Raymond Millard	Newark, Ill.	1125 Chapin St.
Bates, Gilbert Marcus	Duluth, Minn.	424 Prospect St.
Batesole, Glen Lyman	Aberdeen, So. Dak.	Hillcrest
Belding, Grace M.	Janesville	E. H.
Borden, Alice Holman	Milton	E. H.
Borden, Don Albert	Milton	1125 Chapin St.
Brace, George Quigley	Sparta, Mich.	424 Prospect St.
Brittan, Mary	Beloit	J. H.
Buckley, Gladys	Beloit	1249 Emerson St.
Butters, Harold Albert	Ottawa, Ill.	1248 Chapin St.
Clark, Mary Irene	Beloit	653 Park Ave.
Cook, Benjamin Franklin	Compton, Ill.	740 Broad St.
Corey, Dorothy	DeKalb, Ill.	E. H.
Cuckow, Filmer Stuart	Janesville	818 Church St.
Cunningham, Cornelius C.	New York, N. Y.	911 Church St.
Dahlberg, Edwin Monroe	Cherry Valley, Ill.	C. H.
Day, Clifford Louis	Beloit	424 Prospect St.
Denney, Elliott S.	Aurora, Ill.	745 Milwaukee Rd.
Denney, Ellis Houston	Cedar Rapids, Ia.	745 Milw. Rd.
Douglas, Grace	Brodhead	E. H.
Dudley, Jennie Marion	West Salem	E. H.
Eidam, Arthur Edward	Blue Island, Ill.	745 Milw. Rd.
Elliott, Arthur Charles	Rochester, Minn.	745 Milw. Rd.
Ferris, Holmes Dunbar	Princeton, Ill.	424 Prospect St.
Flexer, Irma Orminda	Joliet, Ill.	E. H.
Fucik, George C.	Williams Bay	740 Broad St.
Gharrity, Thomas John	Beloit	1132 Partridge Ave.
Grant, Lillian Ward	Southfield, Mass.	742 Church St.
Habberstad, Earle S.	Lanesboro, Minn.	747 Park Ave.
Halverson, Donald L.	Whitewater	1248 Chapin St.

Hammond, Alva M.	Beloit	849 Park Ave.
Haviland, Muriel P.	Janesville	748 Prairie Ave.
Holmstrom, Myrtle Marie	Joliet, Ill.	E. H.
Hulburt, Stenneth Chauncey	Beloit	724 Clary St.
Hull, Marjorie	Beloit	725 Euclid Ave.
Hurn, Mark	Union Grove	C. H.
Jacobsen, Edmund Lewis	Pierre, So. Dak.	Montgomerie Pk.
Kelley, Helen Beardsley	Beloit	723 Prairie Ave.
Kelly, Gooding Norton	Wausau	1248 Chapin St.
Lamb, Arthur D.	Chicago, Ill.	Montgomerie Pk.
Lowrey, Alice Irene	Oak Park, Ill.	E. H.
McInnes, Bessie Croft	Edgerton	E. H.
Manthey, Erwin A.	Green Bay	1125 Chapin St.
Marsden, Pearl C.	Janesville	424 Harrison Ave.
Mershon, Harry Grant	Rockford, Ill.	804 Harrison Ave.
Mewhirter, Agnes Bourton	Yorkville, Ill.	E. H.
Munn, Grace Mary	Beloit	528 Bluff St.
Nair, John Henry Jr.	Oshkosh	Hillcrest
Neill, David Holland	Aberdeen, So. Dak.	Hillcrest
Owens, Esther Melvina	Tracy, Minn.	E. H.
Pile, Homer Bennett	Dodgeville	612 Pleasant St.
Place, Margaret Ethel	Marinette	E. H.
Radcliffe, Marie Beatrice	West Allis	E. H.
Rau, Ruth Higley	Beloit	757 Euclid Ave.
Rutenbeck, Alvin Elmer	Lost Nation, Ia.	C. H.
Sayler, Arthur	Huntington, Ind.	1125 Chapin St.
Shipton, Andus Walton	Woodstock, Ill.	740 Broad St.
Steiner, Roy S.	Wauwatosa	Montgomerie Pk.
Stout, Helen Knight	Minneapolis, Minn.	E. H.
Taylor, Grace Elizabeth	Delavan	E. H.
Thacher, Luella	Beloit	841 Park Ave.
Thompson, Edna	Clinton	J. H.
Wade, Esther	Wauwatosa	E. H.
Ward, Francis Harold	Waukesha	745 Milwaukee Rd.
Whittemore, Lola Sybel	Beloit	725 Euclid Ave.
Wilcox, Horace Wilson	Charlotte, Mich.	740 Broad St.
Wilcox, Thornton	Rockford, Ill.	C. H.
Wing, Florence Helen	Elgin, Ill.	E. H.
Worthington, Asenath	Beloit	846 Harrison Ave.

Seniors—72

JUNIOR CLASS

Anderson, Gordon Gillett	Milwaukee	1248 Chapin St.
Bailey, Emmett Chester	Beloit	424 Harrison Ave.
Bamford, Dotha	Plymouth	731 Harrison Ave.
Beckus, Ebba Cecelia	Beloit	R. 29, Box 99
Beimer, Eugene Criss	Sac City, Ia.	Hillcrest
Bigelow, Curtis	Flandreau, So. Dak.	740 Broad St.
Birkett, Glenn William	Shell Lake	424 Prospect St.
Brunsvold, Bernice Cornelia	Beloit	744 Ninth St.
Burtt, Albert Frasee	Momence, Ill.	Montgomerie Pk.
Candy, Walter Charles	Dakota, Ill.	Hillcrest
Carlson, Ellsworth Eugene	Chicago, Ill.	740 Broad St.
Collier, Robert, Jr.	Denver, Colo.	945 Park Ave.
Copeland, James Henry	Milwaukee	1248 Chapin St.
Denney, Dorothy	Oak Park, Ill.	J. H.
Dieckhoff, John Carl	Ft. Atkinson	1125 Chapin St.
Dougherty, Wallace Robert	Glenwood, Minn.	C. H.
Evans, Elwyn	Dodgeville	1125 Chapin St.
Ewing, James Goddard	Freeport, Ill.	Montgomerie Pk.
Farmer, Ermie Ida	Beloit	1503 White Ave.
Flugum, Omar Jacob	Stoughton	C. H.
Habberstad, Claude Clayton	Lanesboro, Minn.	Hillcrest
Halsted, Herbert Foltz	Rockford, Ill.	C. H.
Harrington, Elliott Dean	Elkhorn	1248 Chapin St.
Hay, Ralph S.	Rockford, Ill.	Montgomerie Pk.
Henry, Harry John	Jefferson	740 Broad St.
Hiller, Hugh Milligan	Kahoka, Mo.	740 Broad St.
Hobart, Harriet Laura	Roscoe, Ill.	Roscoe, Ill.
Hotchkiss, Ruth O.	Elkhorn	E. H.
Hulburt, Clarence Fay	Beloit	724 Clary St.
Hurd, Florence May	Edgerton	J. H.
Johnson, Bertha Rose	Madison	905 Church St.
Johnson, Frank Eskil	Rockford, Ill.	1248 Chapin St.
Jones, Ethel May	Sparta	J. H.
Klesath, Franklin Carl	Dana, Ill.	Montgomerie Pk.
Lipman, Theodore Earl K.	Beloit	136 W. Grand Ave.
McArthur, Glenne Roy	Janesville	424 Prospect St.
McLay, Margaret Forrester	Janesville	J. H.
McMillan, William Donald	Whitewater	Hillcrest

Mac Lean, Alexander R.	Beloit	1040 Prairie Ave.
Marsh, Corienne Lois	Beloit	850 Hackett St.
Means, Charles Edward	Vinton, Ia.	C. H.
Merrill, Clyde Holahan	Chillicothe, Ill.	424 Prospect St.
Merriman, Elizabeth Royce	Beloit	1304 Prairie Ave.
Moniot, Burton Henry	Ottawa, Ill.	Hillcrest
Mulholland, Stanley Clifford	Rochester, Minn.	745 Milw. Rd.
Nesemeier, Carence Harvey	Dakota, Ill.	C. H.
Nichols, Lucille	Waupun	E. H.
Paige, Hazel May	Beloit	820 Harrison Ave.
Ralston, Carl Twin	Caledonia, Ill.	740 Broad St.
Richmond, Lyle Lee	Lacon, Ill.	424 Prospect St.
Riess, Harry John	Jefferson	740 Broad St.
Rosenthal, Abe Louis	Green Bay	C. H.
Schultz, Martin Charles	Bartlett ,Ill.	745 Milwaukee Rd.
Sellers, Vinnie	Cherokee, Ia.	J. H.
Shedd, Henry Wentworth	Evanston, Ill.	1248 Chapin St.
Sprague, Philip Tripp	Lockport, Ill.	724 Clary St.
Sutherland, Frank Everet	Janesville	1125 Chapin St.
Swanzey, Ruth Ellen	Ridott, Ill.	819 Park Ave.
Tear, James De Graff	Warren, Ill.	424 Prospect St.
Torgrim, Willard	Decorah, Ia.	424 Prospect St.
Tracy, Don Wayne	Merrill	740 Broad St.
Tracy, Laura May	Merrill	J. H.
Weirick, Margaret Marie	Beloit	211 St. Lawrence Ave.
Woolley, Zelma Margaret	Streator, Ill.	J. H.
Wright, Robert Milligan	Libertyville, Ill.	740 Broad St.
Zimmerman, Irene	Beloit	817 Bluff St.

Juniors—66

SOPHOMORE CLASS

Aldrich, Elwood Harmon	Rockford, Ill.	1248 Chapin St.
Allen, Wayne Henry	Momence, Ill.	Montgomerie Pk.
Anderson, Ellen Pauline	Beloit	834 Lincoln Ave.
Atwood, Isabel	Beloit	618 Eighth St.
Barr, Allan Stone	Plainfield, Ill.	1248 Chapin St.
Bartholomew, Mabel Louise	Beloit	522 Eighth St.
Bertschy, Charles Edward	Milwaukee	618 Prairie Ave.
Bickford, Harold Joseph	Green Bay	424 Prospect St.
Blayney, Dana Carroll	Hinsdale, Ill.	1125 Chapin St.
Blazer, Richard R.	Beloit	509 Broad St.
Bostwick, Sidney Coryell	Janesville	1125 Chapin St.
Bowden, Everett	Brodhead	C. H.
Browne, Frank Thomas	Chicago, Ill.	424 Prospect St.
Chase, Fay Harold	River Forest, Ill.	831 Park Ave.
Christopherson, Stanley	Rockford, Ill.	Hillcrest
Cole, Emerson	Saginaw, Mich.	C. H.
Cornelius, Teresa	Beloit	852 Highland Ave.
Cornell, Ira Galesworth	Beloit	710 Highland Ave.
Cox, Ethel Marie	Elgin, Ill.	1307 Chapin St.
Dawson, Harriet Carolyn	Beloit	R. F. D. 28
Densmore, Janet Belle	Beloit	718 Clary St.
Drenning, Eugene James	Beloit	373 W. Grand Ave.
Eaton, Aldyth Lillian F.	Beloit	846 College St.
Edler, Ray	Chippewa Falls	1248 Chapin St.
Flick, Esther Kenyon	Minneapolis, Minn.	J. H.
Friedrich, Adelbert Anton	Beloit	803 W. Grand Ave.
Gayton, Fred Erwin	Beloit	848 Euclid Ave.
Gibson, Joseph Penn, Jr.	New Lisbon	424 Prospect St.
Hackett, Gordon Varman	Kenosha	745 Milwaukee Rd.
Hanscom, John Fletcher	Mineral Point	1125 Chapin St.
Helm, Clara Louise	Beloit	734 Broad St.
Hillhouse, Helen	Beloit	C. H.
Hopkins, Philip	West Depere	C. H.
Johnson, William Henry	Chicago, Ill.	C. H.
Jones, Grace Marion	Plymouth	1240 Strong Ave.
Judd, Stanley S.	Janesville	745 Milwaukee Rd.
Keeler, Raymond	Bristol, Ind.	Montgomerie Pk.
Kingsley, Alice Sheridan	Oak Park, Ill.	S. C.

Knutzen, Ella Christine	Elgin, Ill.	E. H.
Koch, Ralph Fowler	Lake City, Minn.	424 Prospect St.
Korst, Donald Burch	Janesville	1125 Chapin St.
Loescher, George A.	Oshkosh	Montgomerie Pk.
Loomis, Orson Earl	Janesville	Hillcrest
Losh, Edwin	Londonville, O.	Montgomerie Pk.
Macklem, Elizabeth	Beloit	835 Park Ave.
McGavock, Lyla Elizabeth	Beloit	731 St. Lawrence Ave.
McQueen, Martha Isabel	Elgin, Ill.	S. C.
Mereness, Mildred L.	Beloit	848 E. Grand Ave.
Merriman, Charles Royce	Beloit	1304 Prairie Ave.
Miller, F. Herbert	Aurora, Ill.	740 Broad St.
Miller, James C.	Wausau	C. H.
Miller, Lawrence	Aurora, Ill.	745 Milwaukee Rd.
Miller, Norman Fritz	Iron M'tn, Mich.	1248 Chapin St.
Morrill, Ila Louise	Minneap'lis, Minn.	133 Gard'n L'ne
Morris, Wyllys K., Jr.	Sisseton, So. Dak.	Montgomerie Pk.
Murkland, Mary Warrington	Beloit	427 Park Ave.
Murray, Fronie Eunice	Beloit	835 Elm St.
Olson, Victor George	Glenwood, Minn.	839 Church St.
Pearsall, Barbara Evelyn	Evansville	S. C.
Philbrook, Harold Coffin	Castine, Me.	1248 Chapin St.
Pike, Helen McArthur	Beloit	1005 Chapin St.
Raithel, Marie	Ft. Atkinson	617 Park Ave.
Reckhow, Williston E.	Rockford, Ill.	1125 Chapin St.
Reimer, Clarence Charles	Beloit	Rockton Rd.
Rhodes, Stella Ethel	Salem	S. C.
Richardson, Carolyn	Denver, Colo.	829 Church St.
Schutz, John G., Jr.	Marshall, Minn.	1248 Chapin St.
Sleep, Carol Augusta	Elkhorn	S. C.
Sleight, Alfred C.	St. Petersburg, Fla.	424 Prosp't St.
Spanswick, Mabel Pearl	Rockton, Ill.	825 Park Ave.
Stannard, Margaret Knowles	Centerbrook, Ct.	949 Church St.
Swett, William Stone	Oak Park, Ill.	745 Milwaukee Rd.
Thomas, Foster K.	Blanchardville	745 Milwaukee Rd.
Thompson, Orpha C.	Beloit	385 Euclid Ave.
Todd, James, Jr.	Chicago, Ill.	745 Milwaukee Rd.
Tope, Oliver Earle	Oak Park, Ill.	1248 Chapin St.
Vance, Richard	Joliet, Ill.	1125 Chapin St.

VanErmen, Louis	Green Bay	C. H.
Wade, Jeannette	Wauwatosa	S. C.
Wainwright, Doris Harriet	Elgin, Ill.	S. C.
Waldo, Abner Weston	Libertyville, Ill.	740 Broad St.
Walsh, Frances	Beloit	Milwaukee Rd.
Webb, Max E.	Ft. Atkinson	Montgomerie Pk.
Wehmhoff, Rowland Henry	Burlington	C. H.
Weigley, Horace Card	Chicago, Ill.	1248 Chapin St.

Sophomores—85

FRESHMAN CLASS

Aldrich, Bruce Bliss	Elkhorn	740 Broad St.
Anderson, Bessie Ruth	Beloit	743 Bluff St.
Andre, Marjorie Ruth	Beloit	730 Parker Ave.
Baker, Mignon	Ottumwa, Ia.	S. C.
Bamford, George Joseph	Plymouth	Montgomerie Pk.
Barbour, Regnald	Fairmont, Minn.	Montgomerie Pk.
Bastable, Frank George	Sycamore, Ill.	C. H.
Bean, Orin True	Viroqua	740 Broad St.
Bennet, Gordon Chisholm	Geneva, Ill.	1125 Chapin St.
Boucher, Wilbur Joseph	Green Bay	C. H.
Boyd, Martha Gillham	Chicago, Ill.	E. H.
Brand, Gladys	Elgin, Ill.	E. H.
Bryan, Amy Hazelle	Kewanee, Ill	E. H.
Buchanan, Joy Anna	Roscoe, Ill.	Roscoe, Ill.
Burke, Frederic Hammond	Batavia, Ill.	1125 Chapin St.
Case, Winthrop Warren	Winnetka, Ill.	C. H.
Castle, Spencer Warren	Beloit	720 Vernon Ave.
Cattermole, Edward Lowell	Mt. Carroll, Ill.	424 Prospect St.
Chester, Iolyn	Sharon	E. H.
Chipman, Harold Robert	Morrisonville	925 Harrison Ave.
Cloud, Lilian Jane	Kewanee, Ill.	724 Clary St.
Coe, Allen	Clinton, Ia.	1248 Chapin St.
Cole, William Walker	Brodhead	1263 Chapin St.
Conklin, Dorsey Tyler, Jr.	Rockton, Ill.	554 Public Ave.
Connell, Arthur John	Beloit	630 Bluff St.
Cowan, Albert	Victor, Mont.	C .H.
Crouch, Edwin Hunter	Beloit	1008 Church St.
Cunningham, Edward James	Beloit	1003 Park Ave.
Cunningham, Gerald Echlin	Janesville	745 Milwaukee St.
Dawson, Roy Edwin	Wadsworth, Ill.	Montgomerie Pk.
Denney, Joseph C.	Aurora, Ill.	745 Milwaukee Rd.
Doepke, Ralph	Milwaukee	C. H.
DuMez, Gladys Helen	Cashton	E. H.
Eckhardt, Oswalt Adolph	Green Bay	C. H.
Eggebrecht, Carl August	Wausau	423 Harrison Ave.
Egger, Erwin Lawrence	Elgin, Ill.	C. H.
Eldred, Burdette J., Jr.	Beloit	1216 Bushnell St.
Ellis, Harry William	Rockford, Ill.	840 Park Ave.

Evans, Aneta	Beloit	900 Bluff St.
Evans, Harry Russell	Beloit	451 Prairie Ave.
Farnham, Alice Alberta	Antigo	E. H.
Ferriss, Hazel Elizabeth	Beloit	745 Elm St.
Forsberg, Allen B.	West Duluth, Minn.	C. H.
Foster, Franklin David	Mt. Carroll, Ill.	1248 Chapin St.
Frederick, Paul Lewis	Beloit	617 Harrison Ave.
French, John Melvin	Ottawa, Ill.	1248 Chapin St.
Frick, Karl Saenger	Janesville	745 Milwaukee Rd.
Gardner, Evelyn	Chicago, Ill.	E. H.
Gilbert, Wayne Charles	Grand R'pids, Minn.	628 Pleas't St.
Goodrich, Ruth	Durand	J. H.
Gregory, Ruth Harriet	Joseph, Ore.	E. H.
Gridley, Leslie Kenneth	Wyoming, Ill.	209 State St.
Halsted, Helen Elizabeth	Lawrence, Mich.	E. H.
Hathaway, Warren Kennedy	Chicago, Ill.	745 Milwaukee Rd.
Helm, Mary Reed	Beloit	734 Broad St.
Hersey, Ralph Emerson	Conde, So. Dak.	824 Church St.
Hill, Frances Lucretia	Beloit	803 Euclid Ave.
Hollister, Regina	Pierre, So. Dak.	Milw. Rd. & Bushnell St.
Hopkins, Helen Elizabeth	Sterling, Ill.	E. H.
Hough, Vera Alice	Janesville	E. H.
Hubbard, Miriam Beardsley	Beloit	731 Harrison Ave.
Huffman, William Ferdinand	Rockford, Ill.	1248 Chapin St.
Hughes, Everett	Storm Lake, Ia.	Hillcrest
Jacobsen, Eric Collins	Pierre, So. Dak.	Montgomerie Pk.
Jamieson, Junius Williams	Poynette	925 Harrison Ave.
Jeffris, Margaret Hedges	Janesville	J. H.
Jones, Harold Lewis	Beloit	1240 Strong Ave.
Kayser, Alfred Charles	Des Plaines, Ill.	745 Milwaukee Rd.
Kilbourne, William Goudie	Woodstock, Ill.	C. H.
King, Olive Marie	Elgin, Ill.	E. H.
Lathrop, Clara Belle	Beloit	132 Garden Lane
Lathrop, William Nott	Beloit	132 Garden Lane
Lattin, Percy Daniel	DeKalb, Ill.	Hillcrest
Lehr, Manderson	Albion, Neb.	C. H.
Lerch, Wilhelm	Hollandale	Montgomerie Pk.
Lindstrom, Carl Einar Isidor	Ophiem, Ill.	C. H.

Loop, Edwin Sherman	Belvidere, Ill.	724 Clary St.
Lord, Ralph Sherman	Elgin, Ill.	647 College Ave.
Lord, Reginald Beach	Waupaca	C. H.
Lowrey, Forest R.	River Forest, Ill.	745 Milw. Rd.
Luge, Frieda	Cherokee, Ia.	E. H.
McKee, Richard Gray	Belvidere, Ill.	1248 Chapin St.
McMenemy, Logan Tyrone	Rockford, Ill.	431 Park Ave.
McVey, Maude	Missoula, Mont.	927 Park Ave.
Markley, Paul L.	Rockford	910 Broad St.
Martin, Victor Eliel	Beloit	538 Broad St.
Matheson, Marion Barbara	Janesville	E. H.
Menor, Lee Bennett	Brodhead	431 Park Ave.
Merrill, Louis Taylor	Beloit	Milw. Rd. & Bushnell St.
Miles, Theodore	Mt. Carroll, Ill.	1248 Chapin St.
Miller, Mary Julia	Chicago, Ill.	E. H.
Mitchell, Clair Delos	Beloit	840 Hackett St.
Mohr, Albert Conrad	Wausau	1125 Chapin St.
Moore, Lowry Stevens	Beloit	651 Park Ave.
Mongerson, Oscar Victor	St. Charles, Ill.	C. H.
Montgomery, Wm. Russell	Alexandria, So. Dak.	740 Broad St.
Morrissey, Walter L.	Bloomington, Ill.	Montgomerie Pk.
Morrison, Richard S.	Lima, Ohio	
Mountain, Gordon Keeler	Pewaukee	C. H.
Newton, Ralph Edward	Janesville	Hillcrest
North, Edward O.	Rockford, Ill.	C. H.
Northrop, Genevieve Belle	Beloit	717 Highland Ave.
Olendorf, Harry Augustus	Libertyville, Ill.	C. H.
Paul, Stanley Burnham	Janesville	C. H.
Pfisterer, Thomas	Brodhead	Hillcrest
Phelps, Kenneth Proctor	Waukesha	745 Milwaukee Rd.
Pickens, Winnifrede Hale	Chicago, Ill.	E. H.
Pierce, Marion Alice	Elgin, Ill.	E. H.
Pond, Alonzo William	Janesville	C. H.
Potter, Robert Waldo	Ishpeming, Mich.	424 Prospect St.
Pratt, Paul Ashbrook	Thompson, Ill.	C. H.
Rasch, Henrietta	Burlington	E. H.
Reinhard, Raymond Colton	Tomah	745 Milwaukee Rd.
Renier, Clarence Sidney	Bremerton, Wash.	911 Church St.
Roberts, Irving Sears	Fort Atkinson	424 Prospect St.

Robertson, Walter K .	River Forest, Ill.	724 Clary St.
Rogan, Robert	Rockford, Ill.	740 Broad St.
Rohr, Charles	Burlington	730 Milwaukee Rd.
Schneider, Irma	Elgin, Ill.	S. C.
Schoonmaker, Beatrice	Crete, Ill.	E. H.
Scott, Helen Marie	Waupun	E. H.
Sellers, Rodney J.	Chicago, Ill.	Montgomerie Pk.
Shepherd, Dana Hull	Oak Park, Ill.	820 Chapin St.
Sherwin, Herbert Manley	Sparta	911 Church St.
Simons, Hiram A., Jr.	Bemidji, Minn.	Milw. Rd. & Bushnell St.
Smith, Gershom Welles	Oak Park, Ill.	745 Milwaukee Rd.
Snyder, Mildred Irwin	Clinton	S. C.
Stead, Charles Baldwin	Griggsville, Ill.	Hillcrest
Southworth, Leta Boswell	Beloit	933 Eighth St.
Staudenmayer, Maude	Portage	J. H.
Stevenson, Edna Elizabeth	Arlington	E. H.
Stuessy, Fulbert John	Woodstock, Ill.	C. H.
Tang, Ching Yie	Shanghai, China	C. H.
Thomas, Charles Samuel	Rockford, Ill.	424 Prospect St.
Thompson, John Waldemar	Beloit	316 St. Lawrence Ave.
Thompson, Nanette	Beloit	435 Prairie Ave.
Thorpe, Kenneth Stubbs	Fairfield, Ia.	918 Prairie Ave.
Thrasher, Charles Fletcher	Wausau	1248 Chapin St.
Tilleman, John Francis	Green Bay	940 Park Ave.
Todd, Mitchell	Chicago, Ill.	745 Milwaukee Rd.
Tollefson, Helen Marie	Kasson, Minn.	E. H.
Vallentyne, Allin Wesley	Glen Ellyn, Ill.	745 Milwaukee Rd.
Vogt, William Henry	Rockford, Ill.	740 Broad St.
Walsh, Helen Margaret	Beloit	State Road
Walsh, Richard	Beloit	R. R. 31
Webster, Lucile Winnifred	Beloit	734 Harrison Ave.
Weeks, Charles Horace	Joliet, Ill.	1248 Chapin St.
Wilson, Edward Pierce	Milwaukee	C. H.
Wilson, Orpha Roberta	Beloit	605 St. Lawrence Ave.
Winn, Grace Jane	Mineral Point	818 Fourth St.
Woodard, Annice Mary	Fort Dodge, Ia.	E. H.
Yonce, Stanley Logan	Janesville	1248 Chapin St.

Freshmen—152

SUMMARY

Seniors	72
Juniors	65
Sophomores	86
Freshmen	152
Total	375

DISTRIBUTION OF STUDENTS BY STATES

Colorado	2
Connecticut	1
Florida	1
Illinois	117
Iowa	13
Indiana	3
Maine	1
Massachusetts	1
Michigan	6
Minnesota	18
Missouri	1
Montana	2
Nebraska	1
New York	1
Ohio	2
Oregon	1
South Dakota	9
Washington	1
Wisconsin	193
China	1

Officers of Alumni Organizations

Beloit College Alumni League

S. M. Smith, ’90	*President*
G. F. Loomis, ’96	*Vice-President*
E. H. Light, ’06	*Secretary and Treasurer*

Alumni Council

Webster P. Moore, ’58	’51-’59
W. F. Brown, ’66	’60-’69
C. W. Merriman, ’78	’70-’79
Roger Leavitt, ’82	’80-’81
H. D. Densmore, ’86	’85-’89
H. J. Cunningham, ’90	’90-’94
C. D. Rosa, ’98	’95-’99
I. B. Davies, ’01	’00-’04
L. K. Munn, ’07	’05-’09
Nathaniel Miles, ’11	’10-’14

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Robert E. Harrison, ’02	*Vice-President*
John Watson Wilder, ’05	*Secretary and Treasurer*

Wisconsin Alumni Association

Philip Rogers, ex-’94	*President*
Edward H. Light, ’06	*Secretary and Treasurer*

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Oscar Maurer, ’03	*Vice-President*
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Henry R. Mussey, ’00	*Chairman Executive Committee*

Rock River Valley Alumni Association

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Beloit College Alumni Club of the Pacific Northwest

Oscar P. Dix, ex’-00	*President*
George Kuentzel, ’99	*Secretary and Treasurer*

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Rex Morgan, '12 ....*Secretary*

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Ingle Carpenter, '93 .... *President*
James A. Blaisdell, '89.................*Vice-President*

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